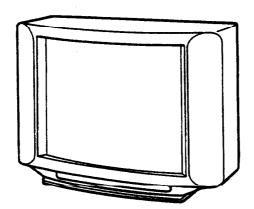
KV-2566AS/2966AS

SERVICE MANUAL



Australian Model

KV-2566AS

Chassis No. SCC-D23K-A

KV-2966A5

Chassis No. SCC-D23J-A

GP-1A CHASSIS

MODELS OF	THE	SAME	SERIES
2566AS/2966AS			

SPECIFICATIONS

Power requirements

110 - 240 V AC, 50/60 Hz

Power consumption Color system

Indicted on the rear of the TV PAL, PAL60, NTSC4.43

Inputs

Antenna 75-ohm

VIDEO INPUT jacks: phono jacks Video: 1 Vp-p, 75 ohms

Audio: 500 mVrms, high impedance

S-TERMINAL VIDEO INPUT jack:

4-pin DIN

Television system and Channel coverage

Television system	B/G
Low VHF band	E2 - E4
High VHF band	E5 - E12
UHF	E21 - E68
CATV	S01 - S03 S1 - S20

Audio output

5W+5W

SUPER WOOFER speaker: 15 W

Outputs

VIDEO OUTPUT jacks: phono jacks

Video: 1 Vp-p, 75 ohms

Audio: 500 mVrms, high impedance

Model KV-	2566AS	2966AS
Picture tube . Apporx. cm (inches)	64 (25)	72.4 (29)
Dimensions (w/h/d, mm)	689 x 513 x 494	782 x 577 x 515
Weight (kg)	35	47

Design and specifications are subject to change without notice.



TRINITRON® COLOUR TV

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WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK $ilde{\mathbb{M}}$ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

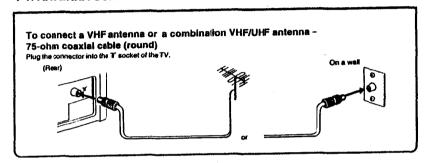
SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating instruction Manual remein as in the manual.

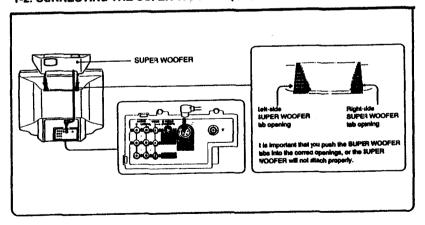
Operating Instructions

Before operating the TV, please read this manual thoroughly and retain it for luture reference.

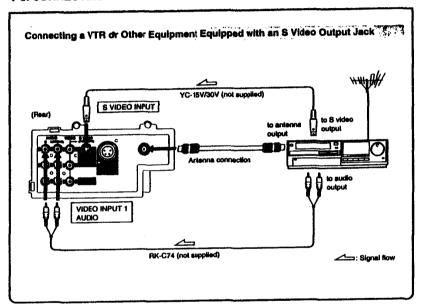
1-1. ANTENNA CONNECTION



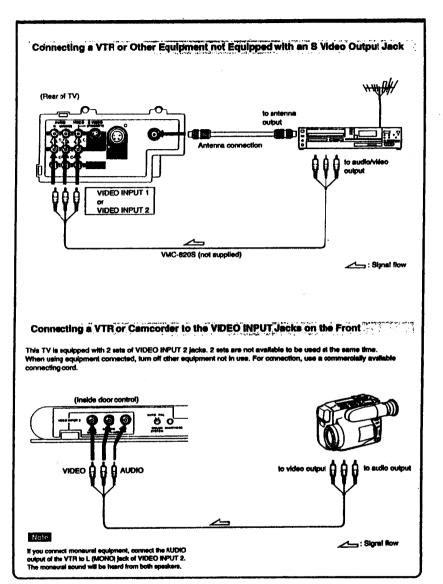
1-2. CONNECTING THE SUPER WOOFER (EXCEPT for Model KV-2566AS)

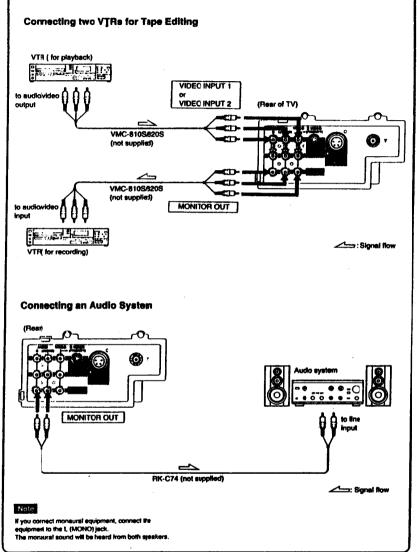


1-3. CONNECTING A VTR OR OTHER EQUIPMENT

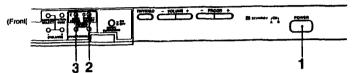


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You can preset up to 39 channels automatically to the program position numbers (0 to 29) in numerical sequence from channel number 1.



1 Press the POWER button.



2 Press the PRESET ON/OFF button ①.



3 Press the AUTO PRCGR button ®.



Manual Presetting

To change the program number for a channel, or to receive a channel of weak signal, presel the channel manually.

Example: To preset a channel in program number 8

- 1 Press the PRESET ON/OFF button.
- 2 Press the PROGR+/- buttons until '8" appears.
- 3 Press the TV SYSTEM button to select your TV system.
- 4 Press the MANUAL PROGR +/- buttons until the channel you want appears.
- 5 Press the PRESET ON/OFF button.

To preset other channels Repeal sleps 1 through 5.

Skipping Program Positions

You can skip the unused or undestred program position when you are selecting a program using PROGR +/-buttons.

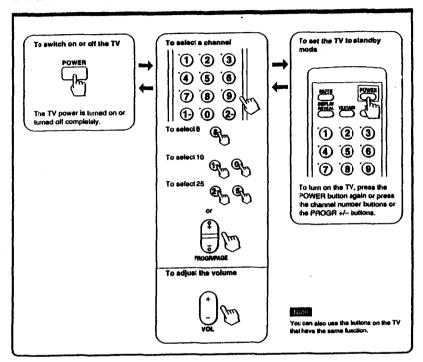
Example: To skip program position &

- 1 Press the PROGR +/- buttons until "8" appears.
- 2 Press the PRESET ON/OFF button.
- 3 Press the PIC MODE button on the Remote Commander.
- 4 Press the PRESET ONOFF button.

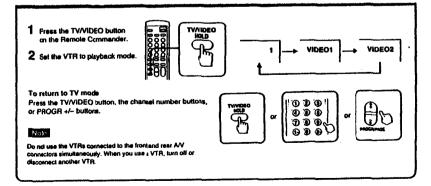
To skip other channels Repeat steps 1 through 3

To cancel the skip setting Preset a channel onto the position number, following the steps in 'Presetting TV channels automatically' or "Presetting channels diredly".

1-5. WACHING THE TV



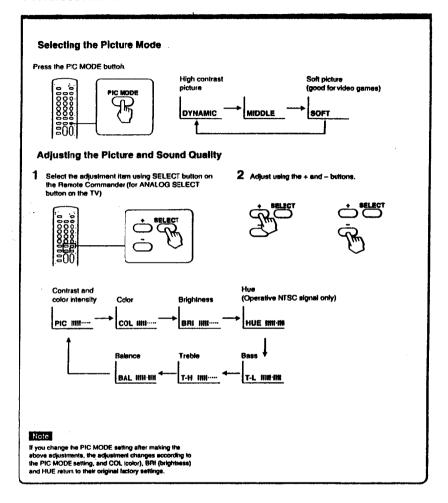
1-6. WATCHING THE VIDEO INPUT

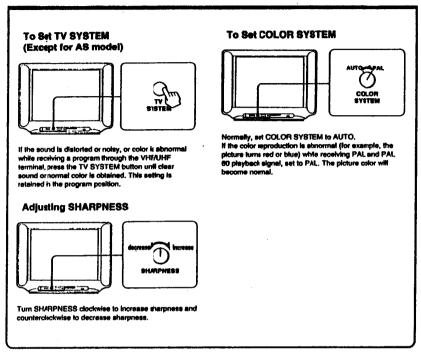


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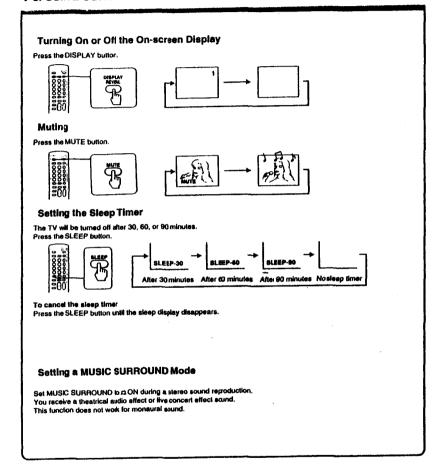
1-7. ADJUSTING THE PICTURE AND SOUND

6





1-8. USING CONVENIENT FEATURES



Selecting the Sound (Stereo or Billingual) You Want

Press the A/B/MTS button until you rective the sound you want. The sound changes and the corresponding indicator lights up as shown in the following table.



Notes

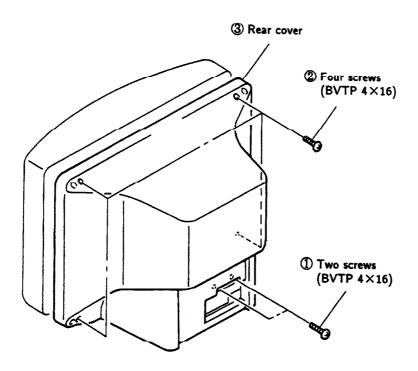
If the signal is very wesk, the sound becomes monaural.
 If the stereo sound is notey, select "regular" or "mono".
 The sound becomes monaural and the notes will be reduced.

When receiving German system program

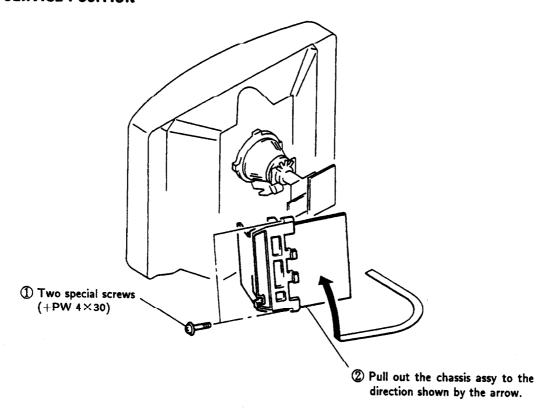
Broadcasting	Selected sour	nd
German Stereo	Sound (Indicator)	Stereo (A + B)
German	Sound (Indicator)	(A) → (B) → (A + B) → (A + B)

SECTION 2 DISASSEMBLY

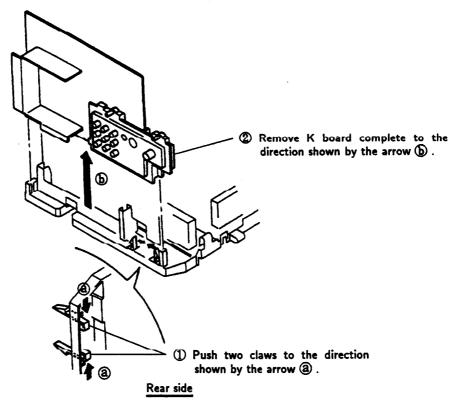
2-1. REAR COVER REMOVAL

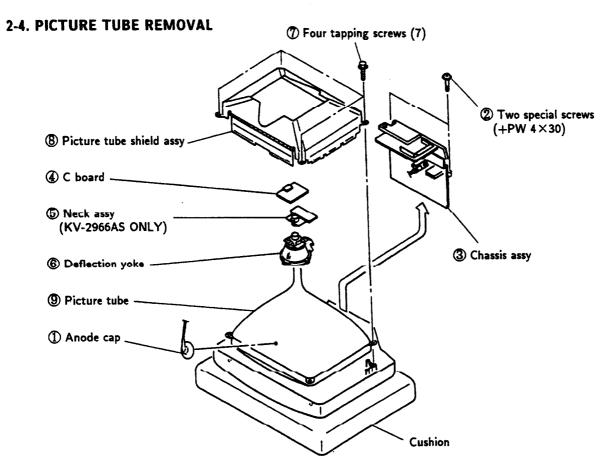


2-2. SERVICE POSITION



2-3. K BOARD REMOVAL

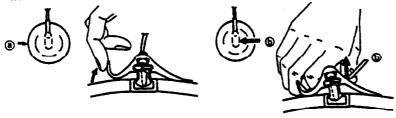




· REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

REMOVING PROCEDURES

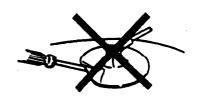


- ① Turn up one side of the rubber cap in the direction indicated by the arrow ②. Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.
- Anode button
- When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

· HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- ② Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

PICTURE control----- normal

BRIGHTNESS control normal

Perform the adjustments in order as follows:

Preparations:

- Feed in the white pattern signal.
- Before starting degauss the entire screen.

3-1. BEAM LANDING

- Input the white signal with the pattern generator.
 Contrast Bightness
- Position neck ass'y as shown in Fig 3-2.
 (29 inch only)
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.

(See Fig. 3-1 through 3-3.)

- 5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig. 3-1.)
- Switch the raster signal to blue, then to green and verify the condition.
- When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
 (See Fig. 3-4.)

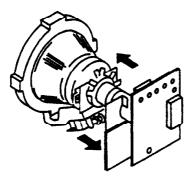
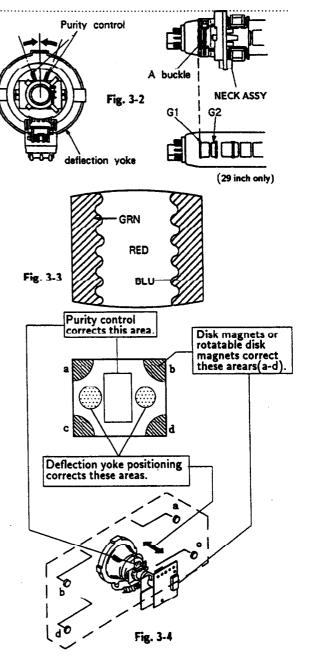


Fig. 3-1

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. White Balance

Note: Test Equipment Required.

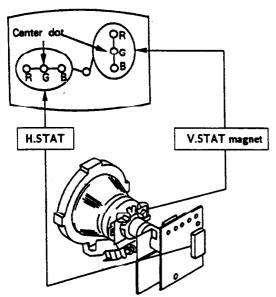
- 1. Color-bar Pattern Generator
- 2. Degausser
- 3. Digital multimeter



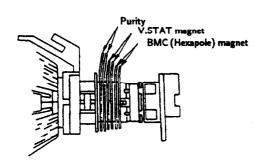
3-2. CONVERGENCE

Preparations:

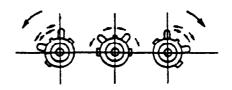
- Before starting perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.
- (1) Horizontal and Vertical Static Convergence



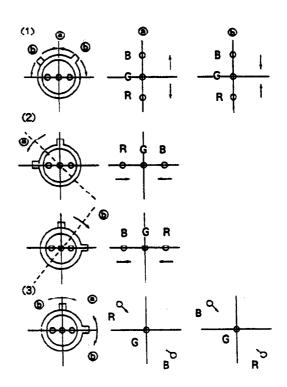
- 1. Adjust H.STAT VR to converge red, green and blue dots in the center of the screen. (Horizontal movement)
- 2. Adjust V.STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
- 3. If the red, green and blue dots do not coverge in the center of the screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)



 Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



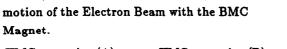
4. When the V.STAT magnet is moved in the direction of arrow (a) and (b) red, green and blue dots move as shown below.

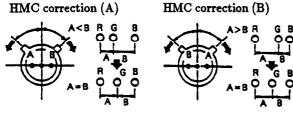


If the blue dot do not Converge with red and green dots, perform following steps.

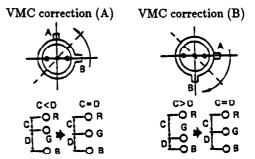
● HMC and VMC correction for BMC (Hexapole) Magnet.

1. HMC (Horizontal Miss Convergence) correction and motion of the Electron Beam with the BMC





2. VMC (Vertical Miss Convergence) correction and motion of the Electron Beem with the BMC Magnet.

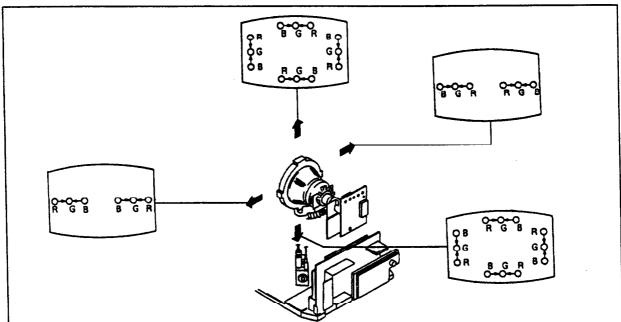


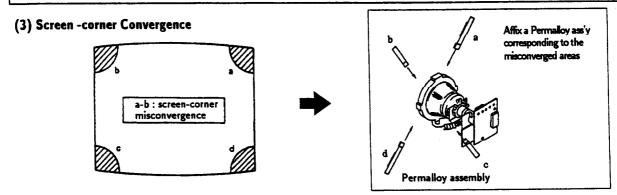
(2) Dynamic Convergence Adjustment

Preparations:

- Before starting perform Horizontal and Vertical static convergence Adjustmet.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.





3-3. FOCUS

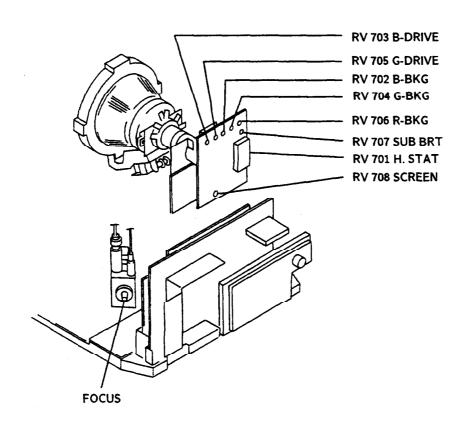
Adjust FOCUS control for best picture.

3-4. SCREEN(G 2) and WHITE BALANCE [SCREEN(G2)]

- 1. Input dots patteren.
- Set the PIC control at minimum and set the BRT control at maximum.
- 3. Confirm the BKG voltage is less than 180 Vdc when turning RV 706 (R.BKG), RV 704 (G.BKG) and RV 702 (B.BKG).
- 4. Note the color when becomes visible first when turning RV 708 (SCRN).

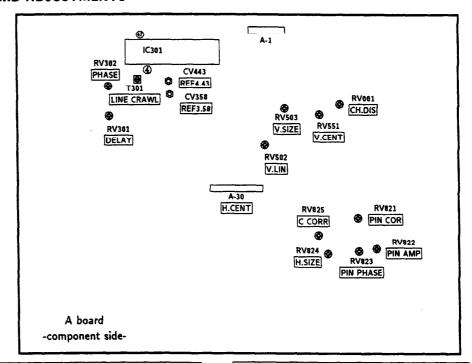
[WHITE BALANCE (Cut off)]

- 1. Input collor bar signl.
- Set the PIC control to minimum and set the BRT control at normal.
- 3. Turn RV 703 (B.DRIVE) and RV 705 (G.DRIVE) fully clockwise.
- Set RV 706 (R.BKG), RV 704 (G.BKG) and RV 702 (B.BKG) to minimum.
- 5. Turn RV 707 (SUB BRT) slowly to obtain a faintly visible blue stripe.
- 6. Switch over all white signal.
- 7. Adjust BKG controls for best white balance.
- Set the PICTURE control to maximum. Observe the screen and adjust the DRIVE controls for best white balance.
- 9. Repeat steps 7 and 8.



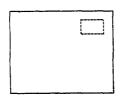
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS



Channel display POSITION ADJUSTMENT (RV001)

- 1. Set PIC control to maximum.
- 2. Adjust RV001 so that the channel display should be positioned at up-right on the screen.



A · P · C ADJUSTMENT (CV443) (PAL)

- 1. Input the PAL color-bar signal.
- 2. Set the PIC, COL, and BRT controls to normal.
- 3. Short circuit between pin (4) and pin (6) of IC301 with jumper.
- 4. Adjust CV443 for suitable color intensity.
- 5. Remove a jumper.

REF OSC 3.58 ADJUSTMENT (CV358) (NTSC 3.58)

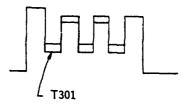
- 1. Short circuit between pin (1) and pin (1) of IC301 with a jumper.
- 2. Set the PIC, COL and BRT controls to normal.
- 3. Input NTSC 3.58 color-bar signal.
- 4. Adjust CV358 for suitable color intensity.
- 5. Remove the jumper.

ANTI PAL, LINE CRAWLING ADJUSTMENT (RV301,RV302,T301)

- ANTI PAL ADJUSTMENT
- 1. Input PAL color-bar signal.
- 2. Set the PIC, COL and BRT controls to normal.
- 3. Connect the oscilloscope to pin 3 of A-1 connector.
- Adjust RV301 (DELAY) and RV302 (PHASE) to obtain the waveform as shown below.
- LINE CRAWLING ADJUSTMENT

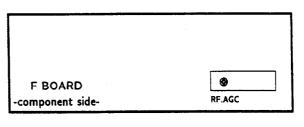


- 1. Input the PAL color-bar signal.
- 2. Set the PIC, COL and BRT controls to normal.
- 3. Connect the oscilloscope to pin 3 of A-1 connector.
- 4. Adjust T301 for minimum line crawling.



RV822 PIN ANP (PINCUSHION AMPLIFIER) RV823 PIN PHASE (PINCUSHION PHASE) RV821 PIN COR (PINCUSHION CORRECT) RV825 C.CORR(CORNER CORRECT) RV824 H.SIZE (HORIZONTAL SIZE) RV503 V.SIZE (VERTICAL SIZE) **RV502 V.LIN (VERTICAL LINEARITY)** CN550 H.CENT (HORIZONTAL CENTER) **RV551 V.CENT (VERTICAL CENTER)**

4-2. F BOARD ADJUSTMENT



RF AGC ADJUSTMENT (IF1)

- 1. Receive a strong off-air signals.
- 2. Adjust RF AGC VR control so that snow noise and cross-modulation just disappear from the picture.

5-5. SEMICONDUCTORS

CXA1213S



CXK5864BSP-10L



KEY-COOSV-F



LA7016



LM393P RC4558P ST24C02AB1 TEA2031A



LM1036N



L78LR05D-MA



MC14052BCP MC14049UBCP TDA8444 µ PD4053BC



MC14066BCP MC33079P



PCA84C840P/054 TC6011N



(Top view)

RC78L09A



RC7812FA



STR-S5741



TA8662N



TDA2009A



TD6710AN



μ PC1498H



µ PC574J



μ PC7893HF



DTA114ES DTC114ES DTC124ES DTC143TS DTC144ES 2SC3327-A



2SA1175-HFE 2SC2785-HFE



2SA1220A-P 2SC2611 2SC2688-LK



26A1221-L 2SB734-34 2SC2958-L 2SD774-34



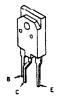
2SA1306A-Y 2SC3298B-Y



2SC2216



2SC4927-01



2SD1408-Y



2SK669



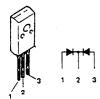
D4SB60L-F



D5LC20U



EGP30GL-6072 ERC06-15S RU-1P RU-3AM





MC932

SEL1222R-C



ERD29-08J RU4DS



EU2Z ES1F-N R2K WG713A



MC911



MC921



RBV-406H-01

RD10ES-B2 RD10ES-B3 RD13ES-B2 RD13ES-B2 RD39ES-B2 RD5.1ES-B2 RD6.8ES-B2 RD6.8ES-B3 RD7.5ES-B1 RD7.5ES-B1 RD7.5ES-B1 RD9.1ES-B3 RD9.1ES-B3 155119



RD10SB1



U05G

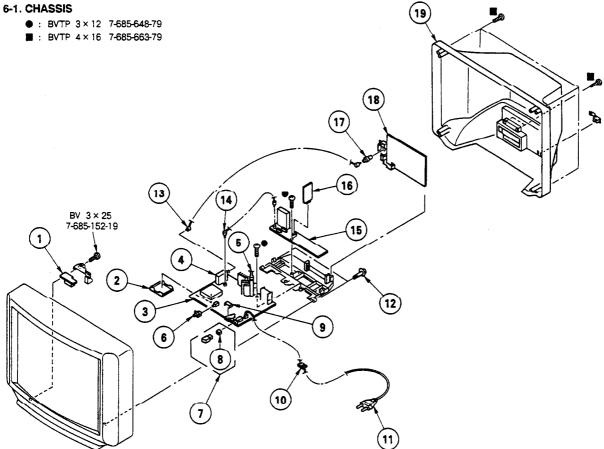


SECTION 6 EXPLODED VIEWS

NOTE:

- Items with no part number and no des-
- Items with no part number and no description are not stocked because they are seldom required for routine service.
 The construction parts of an assembled part are indicated with a collation number in the remark column.
 Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

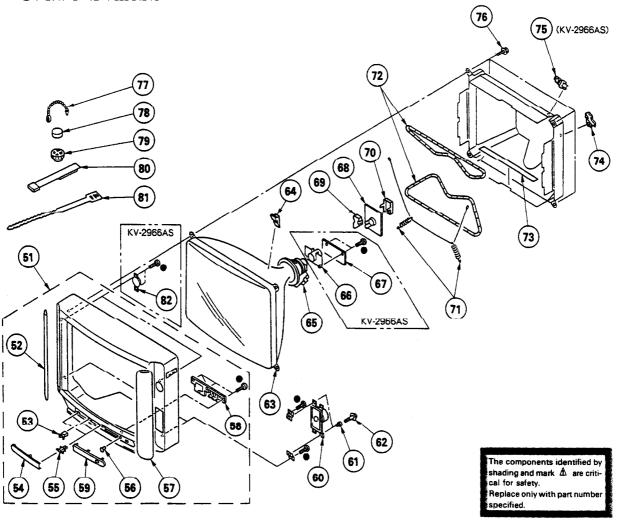
The components identified by shading and mark 🐧 are critical for safety. Replace only with part number specified.



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
1 *1-644-571-12 2 *4-394-974-01 3 *A-1297-054-A	CASE (BOTTON LID), SHIELD A BOARD, COMPLETE (KV-2566AS) A BOARD, COMPLETE (KV-2966AS) TUMER, ET (BT-886A) TRANSPORMER ASSY, FLYBACK (NX-1915) BUTTON ASSY, POWER RING COYER, HOLDER, LED	604)	12 4-319-520-11 13 *1-557-056-31 14 *1-555-400-00 15 *A-1245-491-A 16 *1-634-621-11 17 &1-563-204-13 18 *A-1385-133-A	SCREW, SPECIAL (+PW4X30) CABLE, P-P CABLE, PIN F BOARD, COMPLETE AS BOARD SOCKET, ANTENNA (PAL)	

6-2. PICTURE TUBE

● : BVTP 3×12 7-685-648-79

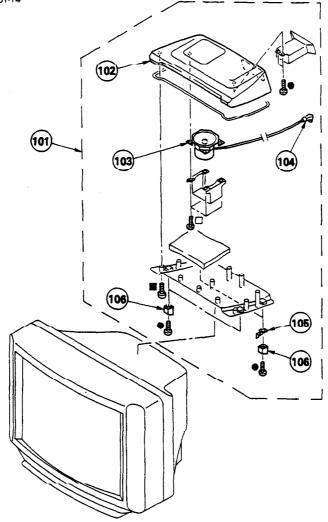


REF. NO.	. PART NO.	DESCRIPTION	REMARK	REF. NO	. PART NO.	DESCRIPTION	REMARK
51 52 53 54 55 56 57 58 59 60 61 62 63	X-4030-784-1 X-4030-608-5 4-038-254-01 4-037-263-01 4-037-263-01 X-4030-708-2 X-4030-528-8 4-032-761-01 *4-389-517-01 4-037-253-01 4-037-255-01 4-037-255-01 4-037-253-21 *4-379-189-01 4-379-192-01 4-379-192-01 4-379-192-01 4-8-733-834-05	CABINET ASSY (WITH BEZEL ASSY) (KV- CABINET ASSY (WITH BEZEL ASSY) (KV- GRILLE (L), SPEAKER (KV-2566AS) GRILLE (L), SPEAKER (KV-2966AS) CATCHER, PUSH DOOR ASSY, CONTROL (KV-2566AS) DOOR ASSY, CONTROL (KV-2966AS) SHAFT (S), DOOR GUIDE (R), LIGHT GRILLE (R), SPEAKER (KV-2566AS) BUTTON, MULTI PANEL, CONTROL SPEAKER CUSHION, SPEAKE	52~59 -2566AS) 52~59 -2966AS)	67 68 69 70 71	*A-1342-195-A *A-1331-243-A *A-1331-073-A *4-379-167-01 *4-390-911-01 *4-390-907-01 4-303-774-99 4-369-318-00 A 1-426-385-11	V4 BOARD, COMPLETE (KV-2966AS) C BOARD, COMPLETE (KV-2966AS) C BOARD, COMPLETE (KV-2966AS) C BOARD, COMPLETE (KV-2966AS) COVER (MAIN), CV (KV-2966AS) COVER (REAR LID), CV (KV-2966AS) COVER (REAR LID), CV (KV-2966AS) SPRING (KV-2566AS) SPRING (KV-2566AS) SPRING, TENSION (KV-2966AS) COIL, DEMAGNETIZATION (KV-2966AS) SHEET, BLOTTING (KV-2966AS) SHEET, BLOTTING (KV-2966AS) HOLDER, LEAD HOLDER, LEAD HOLDER, LEAD HOLDER, LEAD (KV-2966AS) SCREW (7), TAPPING CLIP, LEAD WIRE MAGNET, DISK; 10MM PERMALOY ASSY, CONVERGENCE (KV-	3) 3)
1.3		DEFLECTION YOKE (Y25FXA) (KY-256 DEFLECTION YOKE (Y29FXA) (KY-296 NECK ASSY, PICTURE TUBE (NA-308)	6AS)	81 82	3-701-007-00 1-503-486-11	BAND, BINDING SPEAKER (PIEZOELECTRIC TWEETER)	V-2966AS)

6-3. SPEAKER

●: BVTP 3×12 7-685-648-79
■: BVTP 4×16 7-685-663-79

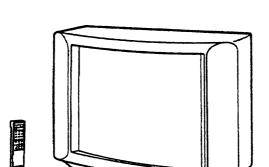
☐ : BVTP 4 × 12 7-685-661-14



REF. NO	. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101 102 103	*A-1500-412-A X-4030-531-1 1-544-363-11	BOX ASSY, SP (KV-2966AS) COVER ASSY, TOP (KV-2966AS) SPEAKER (10CM) (KV-2966AS)	102~106	104 105 106	1-575-109-11 4-037-240-11 4-037-244-01	CORD. CONNECTION (KV-2966AS) STOPPER (KV-2966AS) FOOT (KV-2966AS)	

KV-2566SNT/2966SNT

SERVICE MANUAL



Newzealand Model

KV-2566SNT

Chassis No. SCC-F86B-A

KV-2966SNT

Chassis No. SCC-F86A-A

GP-1A CHASSIS

MODELS OF TH	E SAME SERIES
KV-2566SNT/2966SNT	
KV-2153SN	

SPECIFICATIONS

Power requirements Power consumption

Color system

220-240 V AC, 50/60 Hz Indicated on the rear of the TV PAL,PAL60,NTSC3.58,NTSC4.43 Audio output

Inputs

Television system and Channel coverage

Television system	B/G
Low VHF band	1-3
High VHF band	4-10

Outputs

5W+5W

SUPER WOOFER speaker: 15W

Antenna 75-ohm

VIDEO INPUT jacks: phono jacks

Video: 1 Vp-p, 75 ohms

Audio: 500 mVrms, high impedance

S VIDEO INPUT jack:

4-pin DIN

MOMITOR OUT jacks: phono jacks

Video: 1 Vp-p, 75 chms

Audio: 500 mVrms, high impedance

- Continued on page 2 -



TRINITRON® COLOR TV
SONY®

KV-2566SNT/2966SNT

	KV-2566SNT	KV-2966SNT
Picture tube Approx. cm (inches)	64(25)	72.4(29)
Dimensions (w/h/d, mm)	689x513x494	782x577x515
Weight (kg)	38	47

Design and specifications are subject to change without notice.

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK

ON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

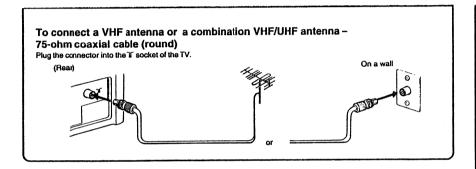
SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

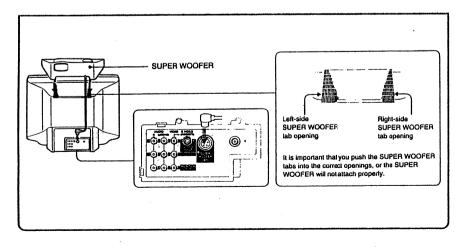
Operating Instructions

Before operating the TV, please read this manual thoroughly and retain it for future reference.

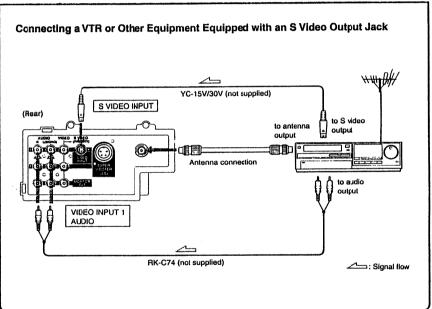
1-1. ANTENNA CONNECTION

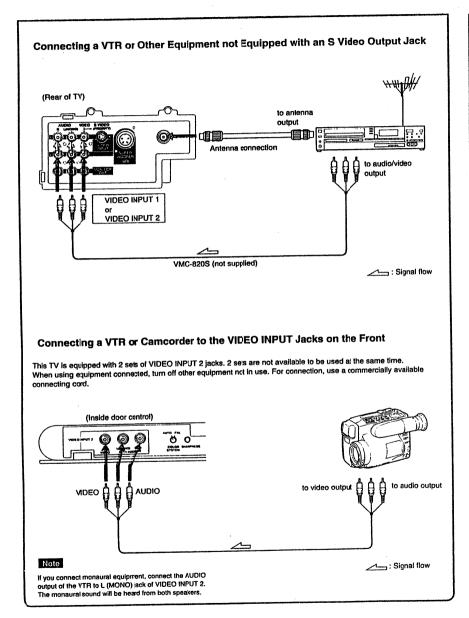


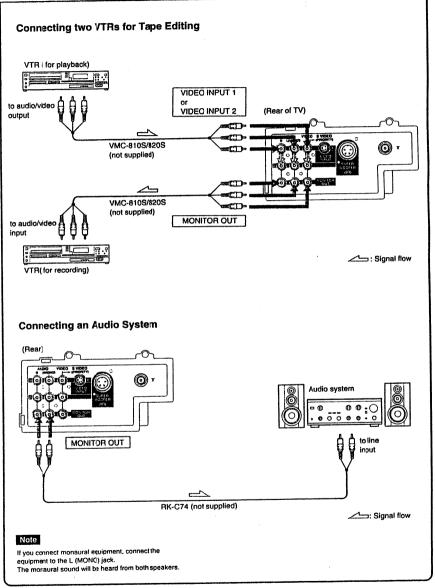
1-2. CONNECTING THE SUPER WOOFER



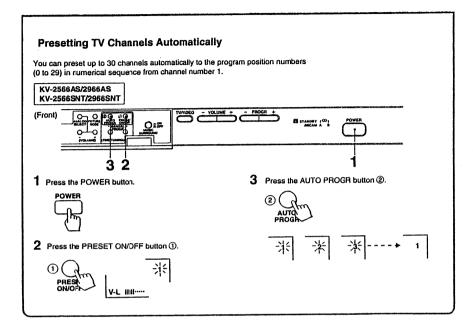
1-3. CONNECTING A VTR OR OTHER EQUIPMENT







1-4. PRESETTING TV CHANNELS



Manual Presetting

To change the program number for a channel, or to receive a channel of weak signal, preset the channel manually.

Example: To preset a channel in program number 8

- 1 Press the PRESET ON/OFF button.
- 2 Press the PROGR+/- buttons until "8" appears.
- 3 Press the TV SYSTEM button to select your TV system.
- 4 Press the MANUAL PROGR +/- buttons until the channel you want appears.
- 5 Press the PRESET ON/OFF button.

To preset other channels Repeat steps 1 through 5.

Skipping Program Positions

You can skip the unused or undesired program position when you are selecting a program using PROGR +/- buttons.

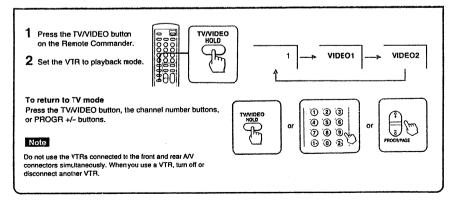
Example: To skip program position 8

- 1 Press the PROGR +/- buttons until "8" appears.
- 2 Press the PRESET ON/OFF button.
- 3 Press the PIC MODE button on the Remote Commander.
- 4 Press the PRESET ON/OFF button.

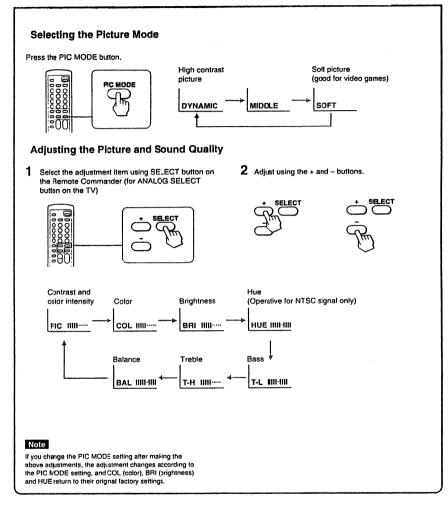
To skip other channels Repeat steps 1 through 3.

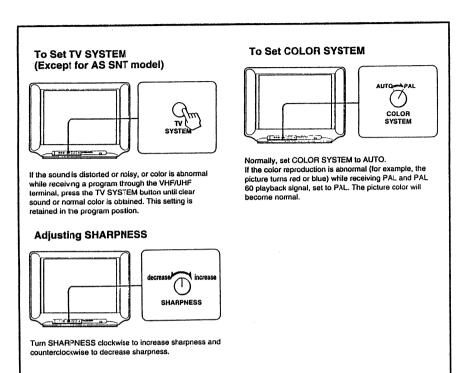
To cancel the skip setting Preset a channel onto the position number, following the steps in "Presetting TV channels automatically" or "Presetting channels directly".

1-6. WATCHING THE VIDEO INPUT

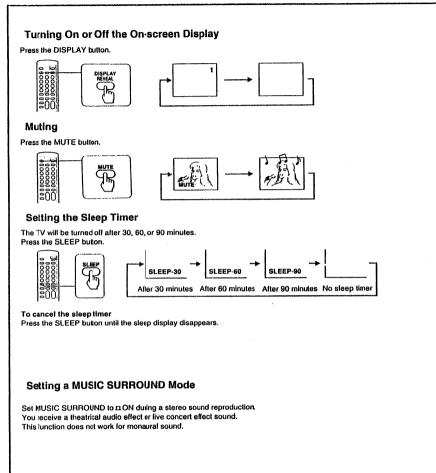


1-7. ADJUSTING THE PICTURE AND SOUND





1-8. USING CONVENIENT FEATURES



Selecting the Sound (Stereo or Bilingual) You Want

Press the A/B/MTS button until you receive the sound you want. The sound charges and the corresponding indicator lights up as shown in the following table.



KV-2566MI/2966MI/2566MNT/2966MNT/2566SNT/2966SNT

-When receiving NICAM system program

Broadcasting	Selected sound		
NICAM Stereo	Sound (Indicator)	Stereo Regular (NICAM + A + B) (NICAM)	
NICAM bilingual	Sound (Indicator)	A B Regular (NICAM + A) (NICAM + B)	
NICAM mono	Sound (Indicator)	Mcno Regular (NICAM + A) (NICAM)	

Notes

- · If the signal is very weak, the sound becomes monaural.
- If the stereo sound is noisy, select regular or "mono".

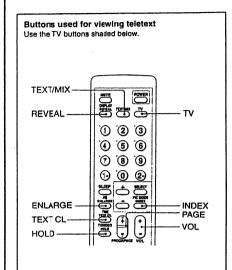
 The sound becomes monaural and the noise will be reduced.

KV-2566AS/2966AS/2566MNT/2966MNT/2566SNT/2966SNT

--- When receiving German system program

Broadcasting	Selected sound		
German Stereo	Sound (Indicator)	Stereo (A + B)	
German bilingual	Sound (Indicator)	A B A B A B A B A B A B A B A B A B A B	

1-9. VIEWING TELETEXT



Operation

To view the teletext

- 1 Select the TV channel for the teletext service you want.
- Press the TEXT/MIX button.
 A teletext page appears.
 Once the TEXT/MIX button has pressed, you cannot change the channel.
- 3 Key in the three digits (the page number) using the number buttons.

The requested teletext page appears.
If you made a mistake complete three digits with any number. Then, key in the correct page number.

To return to TV mode Press the TV button.

To adjust the volume
Use the VOL +/- buttons.
The on-screen display does not appear.

Note

You cannol adjust the picture. The SELECT +/- buttons (or ANALOG SELECT +/- on the TV) do not work for the teletext.

To receive the teletext of a different TV channel

- 1 Press the TV button to return TV mode.
- 2 Select the TV channel you want.
- 3 Press the TEXT/MIX button.

To display the index page
Press the INDEX button.
If no signal is being broadcast, page 100 appears.

To rapidly access the next or preceding page Press the PAGE + or - button.

To superimpose the teletext on the TV picture Press the TEXT/MIX button twice in TV mode. To view the teletext only, press the TEXT/MIX button again.

To prevent a teletext page (subpage) from being updated or changed Press the HOLD button. The HOLD symbol ⊞ appears at the top left corner of the screen. To resume normal teletext reception, press the TEXT/MIX button.

To enlarge the teletext display
Press the ENLARGE button.
Press once to enlarge the upper half; press again to
enlarge the lower half; press again to return to the
normal display.

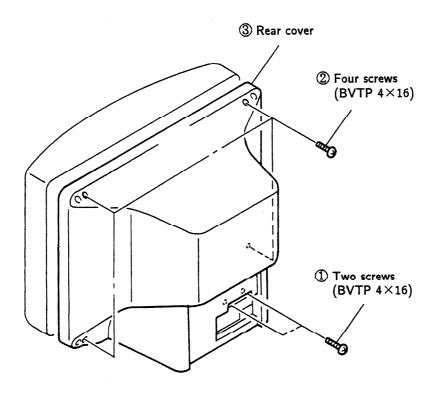
To reveal concealed information such as the answer to a quiz Press the REVEAL button. Press again to conceal the answers.

To watch the TV program while waiting for a requested page to be displayed

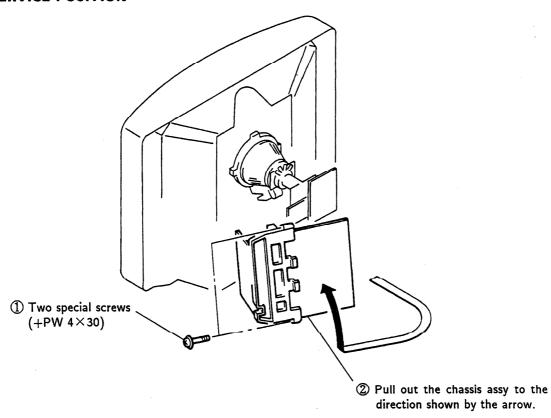
- 1 Key in the page you want.
- Press the TEXT CL button.
 The TV program appears.
 When the requested page has been captured, the page number appears at the top left corner.
- 3 To view the page, press the TEXT/MIX button.

SECTION 2 DISASSEMBLY

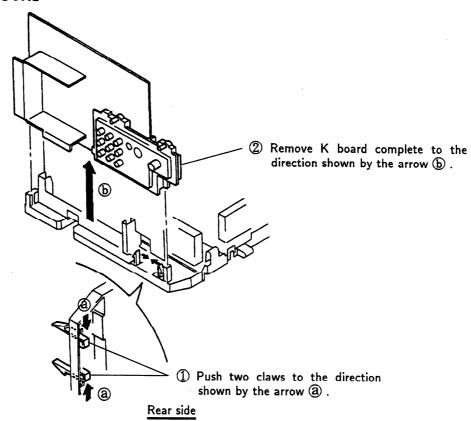
2-1. REAR COVER REMOVAL



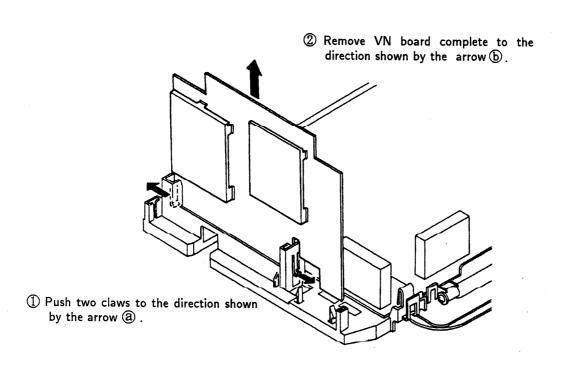
2-2. SERVICE POSITION

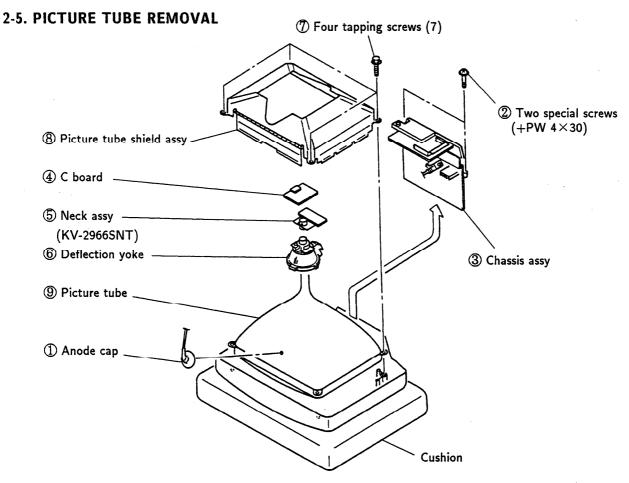


2-3. K BOARD REMOVAL



2-4. VN BOARD REMOVAL

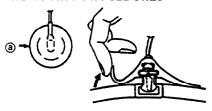


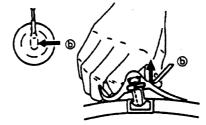


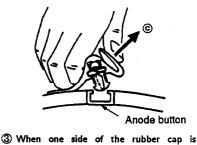
· REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

REMOVING PROCEDURES







separated from the anode button, the anode-cap can be removed by turning

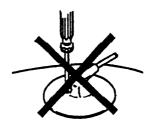
up the rubber cap and pulling up it in

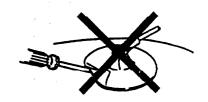
the direction of the arrow ©.

- the direction indicated by the arrow @.
- ① Turn up one side of the rubber cap in ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow 🕲.

· HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

PICTURE control----- normal BRIGHTNESS control----- normal

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. White Balance

Note: Test Equipment Required.

- 1. Color-bar Pattern Generator
- 2. Degausser
- 3. Digital multimeter

Purity control

Preparations:

- Feed in the white pattern signal.
- Before starting degauss the entire screen.

3-1. BEAM LANDING

- Input the white signal with the pattern generator.
 Contrast Bightness normal
- Position neck ass'y as shown in Fig 3-2.
 (29 inch only)
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.

(See Fig. 3-1 through 3-3.)

- 5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig. 3-1.)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4.)

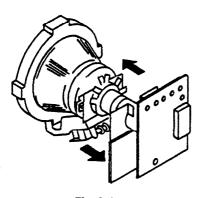
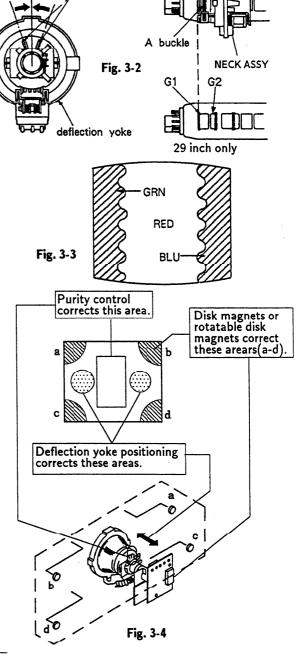


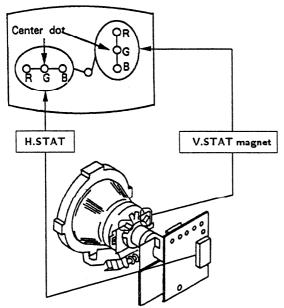
Fig. 3-1



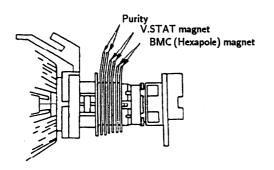
3-2. CONVERGENCE

Preparations:

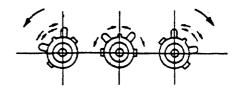
- Before starting perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.
- (1) Horizontal and Vertical Static Convergence



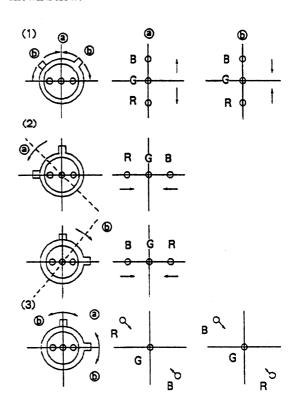
- 1. Adjust H.STAT VR to converge red, green and blue dots in the center of the screen. (Horizontal movement)
- 2. Adjust V.STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
- 3. If the red, green and blue dots do not coverge in the center of the screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)



 Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow ② and ⑤ red, green and blue dots move as shown below.

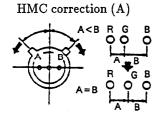


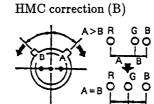
If the blue dot do not Converge with red and green dots, perform following steps.

• HMC and VMC correction for BMC (Hexapole) Magnet.

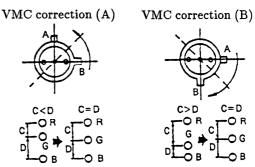
1. HMC (Horizontal Miss Convergence) correction and motion of the Electron Beam with the BMC

Magnet.





2. VMC (Vertical Miss Convergence) correction and motion of the Electron Beem with the BMC Magnet.

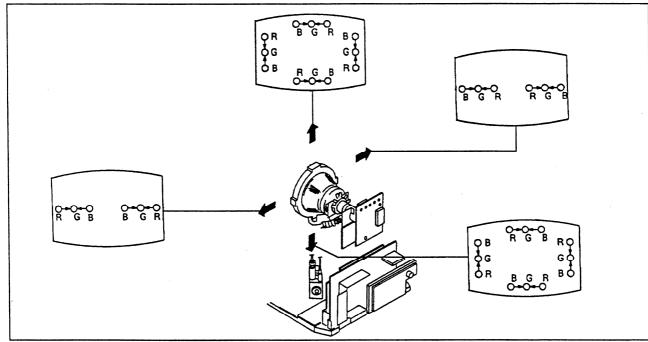


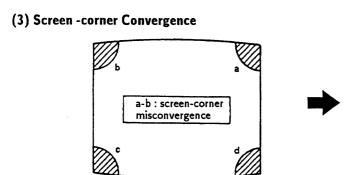
(2) Dynamic Convergence Adjustment

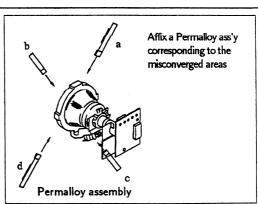
Preparations:

- Before starting perform Horizontal and Vertical static convergence Adjustmet.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.







3-3. FOCUS

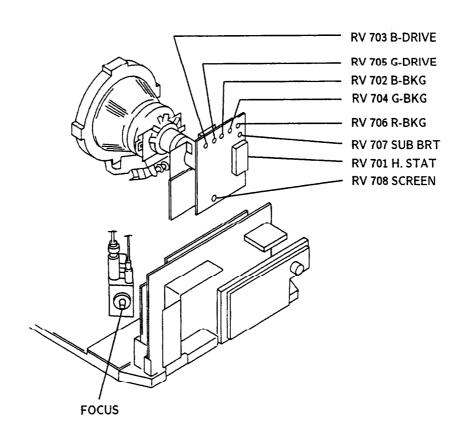
Adjust FOCUS control for best picture.

3-4. SCREEN(G 2) and WHITE BALANCE [SCREEN(G2)]

- 1. Input dots patteren.
- 2. Set the PIC control at minimum and set the BRT control at maximum.
- 3. Confirm the BKG voltage is less than 180 Vdc when turning RV 706 (R.BKG), RV 704 (G.BKG) and RV 702 (B.BKG).
- 4. Note the color when becomes visible first when turning RV 708 (SCRN).

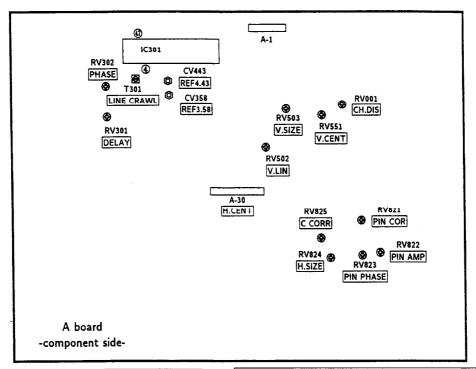
[WHITE BALANCE (Cut off)]

- 1. Input collor bar signl.
- 2. Set the PIC control to minimum and set the BRT control at normal.
- 3. Turn RV 703 (B.DRIVE) and RV 705 (G.DRIVE) fully clockwise.
- Set RV 706 (R.BKG), RV 704 (G.BKG) and RV 702 (B.BKG) to minimum.
- 5. Turn RV 707 (SUB BRT) slowly to obtain a faintly visible blue stripe.
- 6. Switch over all white signal.
- 7. Adjust BKG controls for best white balance.
- Set the PICTURE control to maximum. Observe the screen and adjust the DRIVE controls for best white balance.
- 9. Repeat steps 7 and 8.



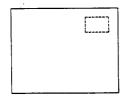
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS



Channel display POSITION ADJUSTMENT (RV001)

- 1. Set PIC control to maximum.
- 2. Adjust RV001 so that the channel display should be positioned at up-right on the screen.



A · P · C ADJUSTMENT (CV443) (PAL)

- 1. Input the PAL color-bar signal.
- 2. Set the PIC, COL, and BRT controls to normal.
- 3. Short circuit between pin (4) and pin (6) of IC301 with jumper.
- 4. Adjust CV443 for suitable color intensity.
- 5. Remove a jumper.

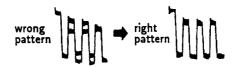
REF OSC 3.58 ADJUSTMENT (CV358) (NTSC 3.58)

- 1. Short circuit between pin (4) and pin (4) of IC301 with a jumper.
- 2. Set the PIC, COL and BRT controls to normal.
- 3. Input NTSC 3.58 color-bar signal.
- 4. Adjust CV358 for suitable color intensity.
- 5. Remove the jumper.

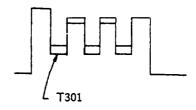
ANTI PAL, LINE CRAWLING ADJUSTMENT (RV301,RV302,T301)

- ANTI PAL ADJUSTMENT
- 1. Input PAL color-bar signal.
- 2. Set the PIC, COL and BRT controls to normal.
- 3. Connect the oscilloscope to pin 3 of A-1 connec
- 4. Adjust RV301 (DELAY) and RV302 (PHASE) obtain the waveform as shown below.

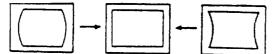
• LINE CRAWLING ADJUSTMENT



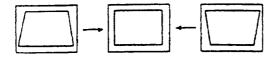
- 1. Input the PAL color-bar signal.
- 2. Set the PIC, COL and BRT controls to normal.
- 3. Connect the oscilloscope to pin 3 of A-1 conne
- 4. Adjust T301 for minimum line crawling.



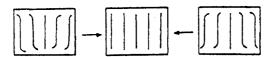
RV822 PIN ANP (PINCUSHION AMPLIFIER)



RV823 PIN PHASE (PINCUSHION PHASE)



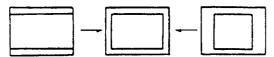
RV821 PIN COR (PINCUSHION CORRECT)



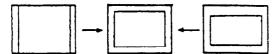
RV825 C.CORR(CORNER CORRECT)



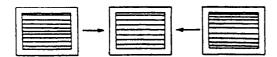
RV824 H.SIZE (HORIZONTAL SIZE)



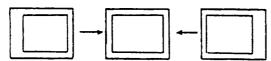
RV503 V.SIZE (VERTICAL SIZE)



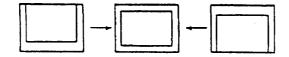
RV502 V.LIN (VERTICAL LINEARITY)



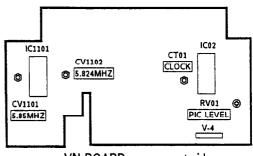
CN550 H.CENT (HORIZONTAL CENTER)



RV551 V.CENT (VERTICAL CENTER)



4-2. VN BOARD ADJUSTMENTS



VN BOARD -component side-

5.85MHz (CARRIER Freq) Adjustment (CV1101)

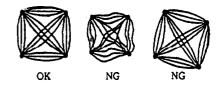
- 1. Tune in a NICAM signal.
- 2. Connect the frequency counter to pin ® of IC1101.
- 3. Adjust CV1101 so that frequency becomes 5.85MHz ± 30Hz.

• Confirmation

Connect the X input of an oscilloscope to IC1101 pin (29), and the Y input to pin (29).

Confirm waveform by X-Y mode.

Confirm that waveform as OK observed clearly and without tilt.



5.824MHz (Clock Freq) Adjustment (CV1102)

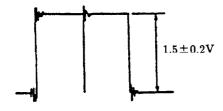
- 1. Tune in a NICAM signal.
- 2. Connect the frequency counter to pin 26 of IC1101.
- 3. Adjust CV1102 so that frequency becomes 5.824MHz±30Hz.

CLOCK ADJUSTMENT (CT01)

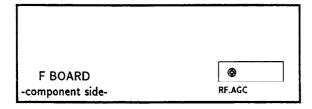
- 1. Disconnect V-1 connector.
- 2. Connect frequency counter to pin 9 of IC02.
- 3. Adjust CT01 to 6.0MHz±50Hz.
- 4. Connect V-1 connector.

PICTURE LEVEL ADJUSTMENT (RV01)

- 1. Connect oscilloscope to G output of V-4 connector.
- 2. Adjust RV01 so that G output level (black level to white peak) is 1.5 ± 0.2 V.



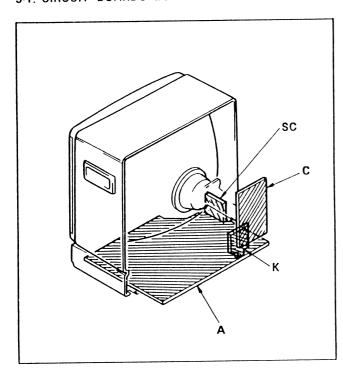
4-3. F BOARD ADJUSTMENT



RF AGC ADJUSTMENT (IF1)

- 1. Receive a strong off-air signals.
- 2. Adjust RF AGC VR control so that snow noise and cross-modulation just disappear from the picture.

5-1. CIRCUIT BOARDS LOCATION



- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 1/4 W

- All resistors are in ohms
- : nonflammable resistor.
- : fusible resistor.
- : Internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10 $\,M\Omega\,$ digital multimeter.
- Readings are taken with a color-bar signal input. no mark: with PAL color-bar signal received.
-): with SECAM color-bar signal received.
- Voltage variations may be noted due to normal production tolerances.
- : signal path.

Reference information

METAL FILM RESISTOR : RN : RC SOLID

NONFLAMMABLE CARBON : FPRD NONFLAMMABLE FUSIBLE : FUSE

NONFLAMMABLE WIREWOUND NONFLAMMABLE METAL OXIDE : RS

NONFLAMMABLE CEMENT : RB

: LF-8L MICRO INDUCTOR

COIL CAPACITOR : TA **TANTALUM**

: PS STYROL

> : PP POLYPROPYLENE

: PT MYLAR

METALIZED POLYESTER : MPS METALIZED POLYPROPYLENE : MPP

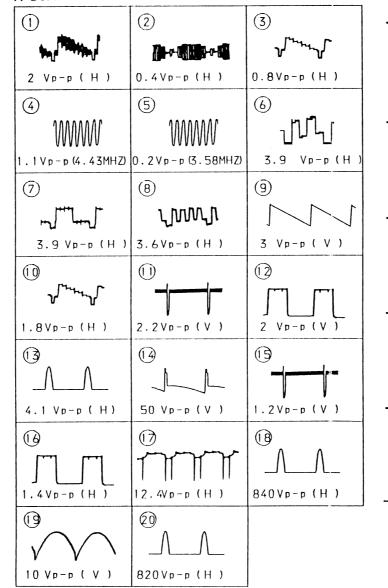
BIPOLAR : ALB

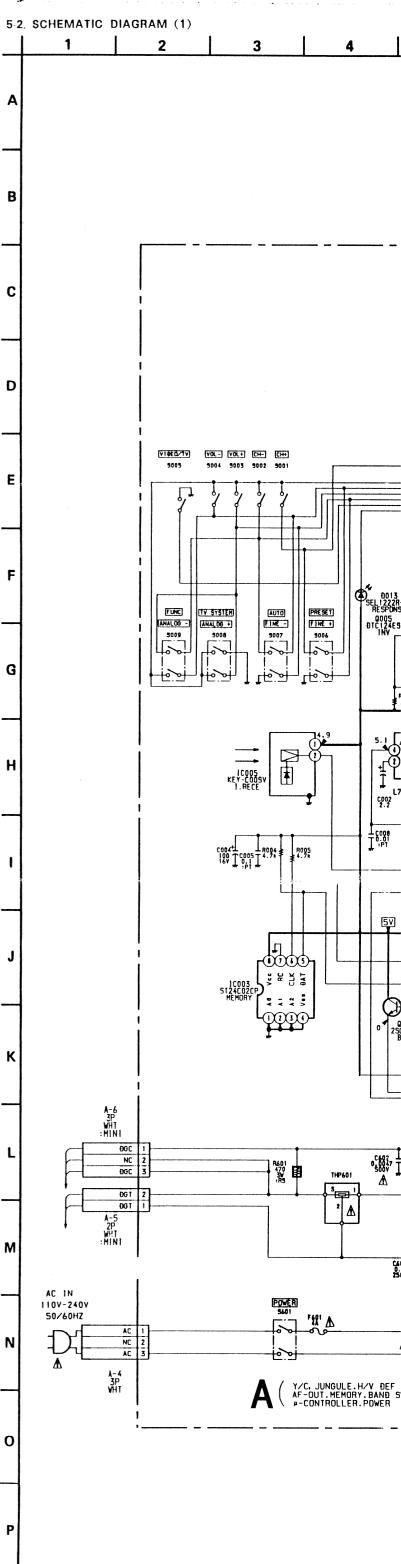
: ALT HIGH TEMPERATURE

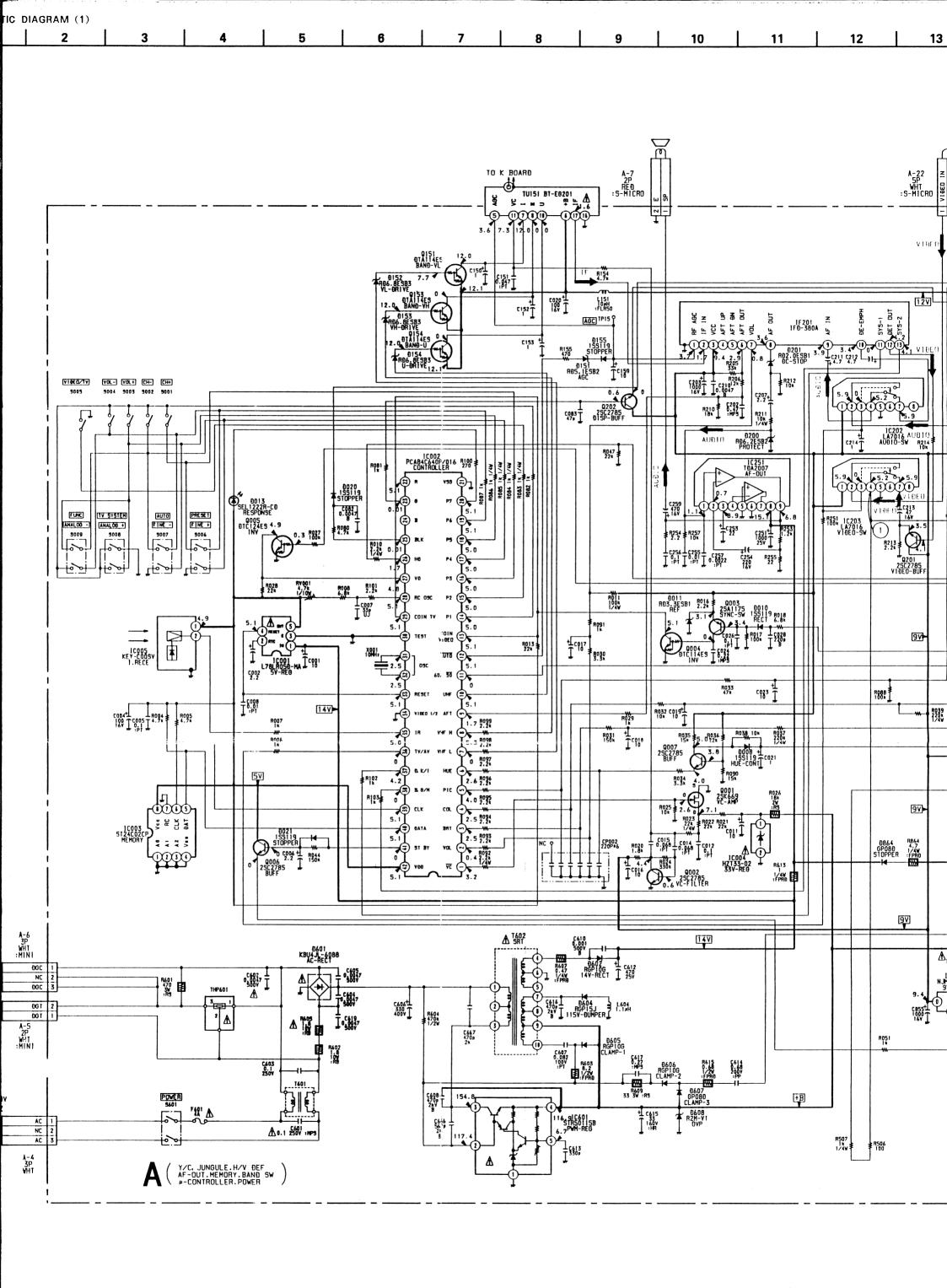
HIGH RIPPLE : ALR

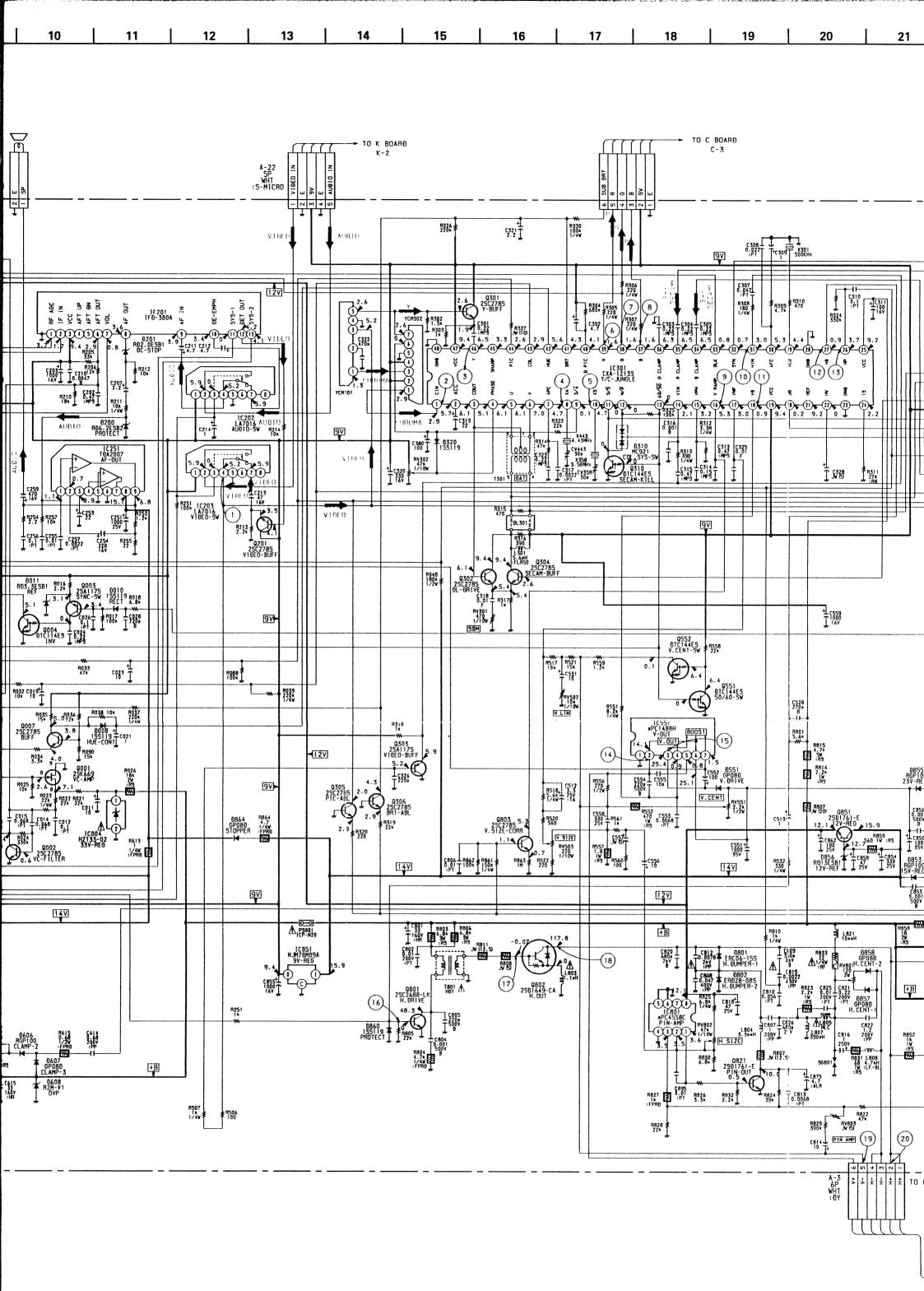
Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

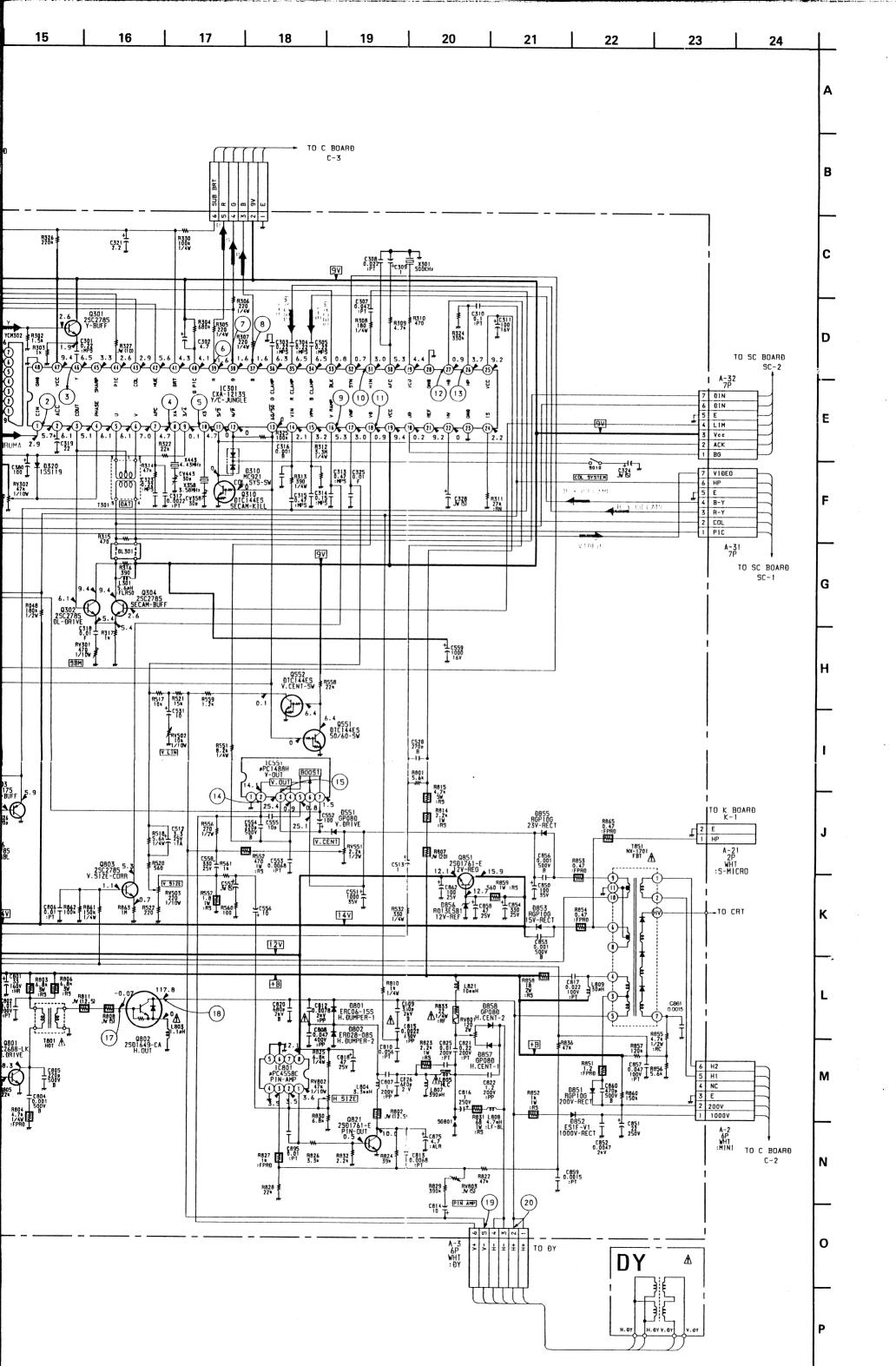
A BOARD WAVEFORM











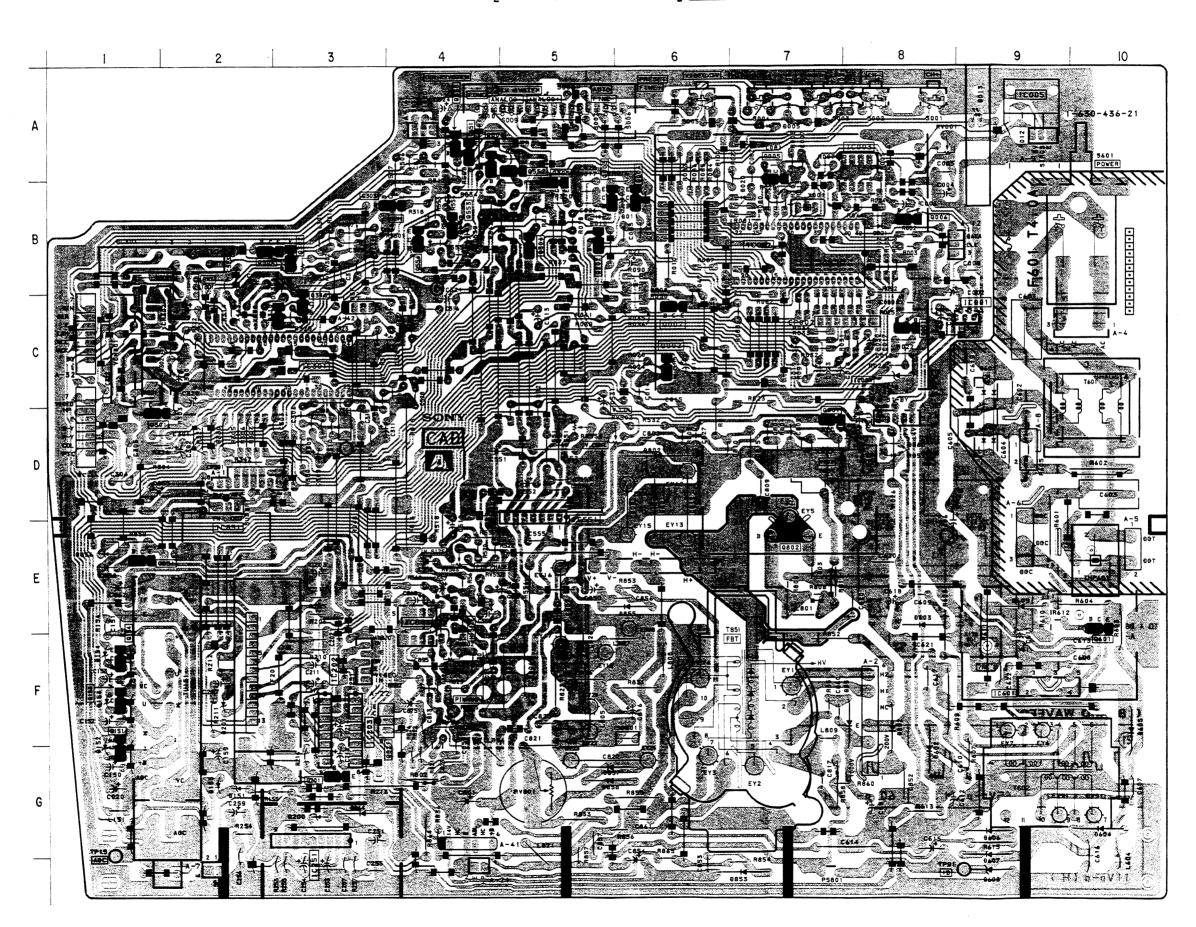
KV-1984MT RM-687C

KV-1984MT RM-687C

5-3. PRINTED WIRING BOARD (1) -CONDUCTOR SIDE-

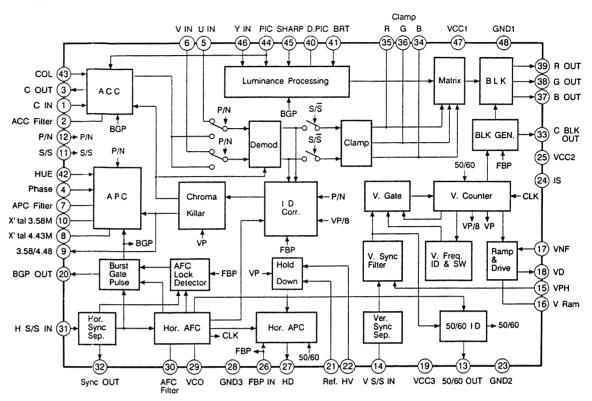
Y/C, JUNGLE, H/V DEF AF-OUT, MEMORY, BAND SW µ -CONTROLLER, POWER





IC		DIODE		DELAY	LINE
IC001 IC002 IC003	C-9 B-7 A-8	D008 D010 D011	B-6 B-5 B-6	DL301	B-1
IC004 IC005 IC202	C-8 A-9 F-3	D013 D020 D021	A-9 B-7 B-8	IF BL	
IC203 IC251 IC301 IC551	F-3 G-3 C-3 D-5	D151 D152 D153 D154	F-2 F-1 F-1 F-1	IF201	F-2
IC601 IC801	F-9 E-4	D155 D200	F-2 G-3	TUN	
IC851	D-2	D201 D310 D320 D551	F-2 C-3 C-2 D-5	TU151	F-2
TRANS		D601 D602	C-9 G-8	CRYS	TAL
Q002 Q003 Q004 Q005 Q006 Q007 Q151 Q153 Q154 Q201 Q202 Q301 Q302 Q303 Q304 Q305 Q306 Q31Q Q551	1003 B-5 1004 B-6 1005 A-7 1006 B-8 1007 C-6 1151 F-1 1153 F-1 1201 G-3 12201 G-3 12302 B-5 12301 D-1 12302 B-3 12303 B-4 12304 B-2 12305 A-5 12310 C-3 12551 A-4		G-10 F-10 G-9 G-9 G-9 D-6 D-6 F-8 F-8 G-7 E-6 E-1 G-5 G-5	X001 X301 X358 X443	B-7 D-3 C-2 C-2
Q552 Q801 Q802	A-5 D-7 E-7	1	ABLE STOR		
Q803 Q821 Q851	A-4 F-3 E-1	RV001 RV301 RV302 RV502 RV503 RV551 RV801 RV802	A-8 B-4 B-3 D-6 E-4 D-5 G-5 F-4		

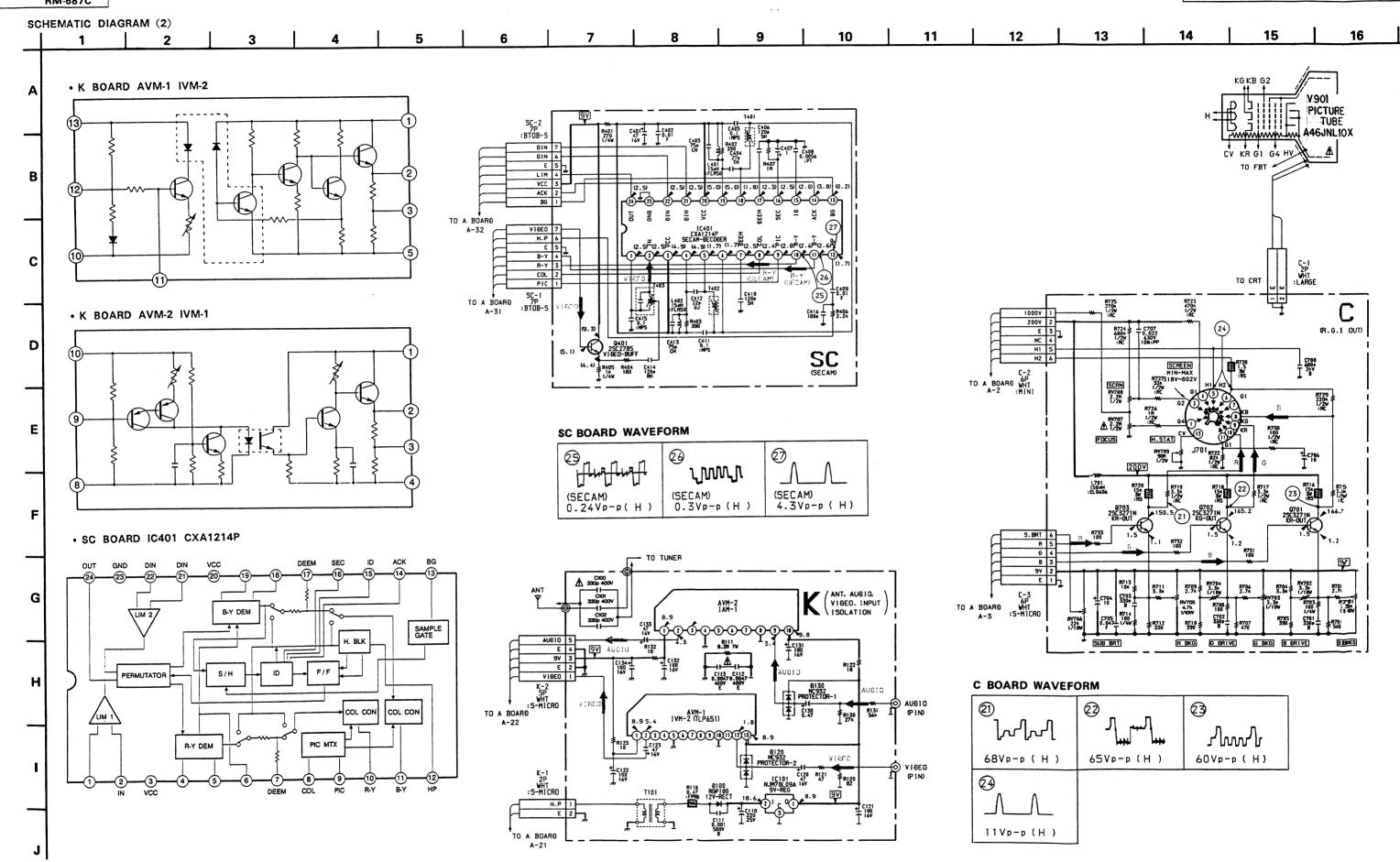
• A BOARD IC301 CXA1213S





NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



PRINTED WIRING BOARD (2)

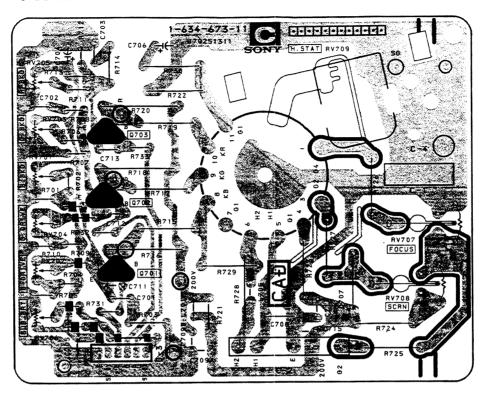
-CONDUCTOR SIDE-



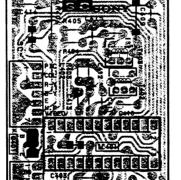




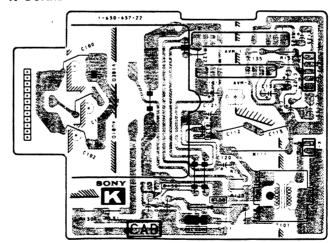
-C BOARD-



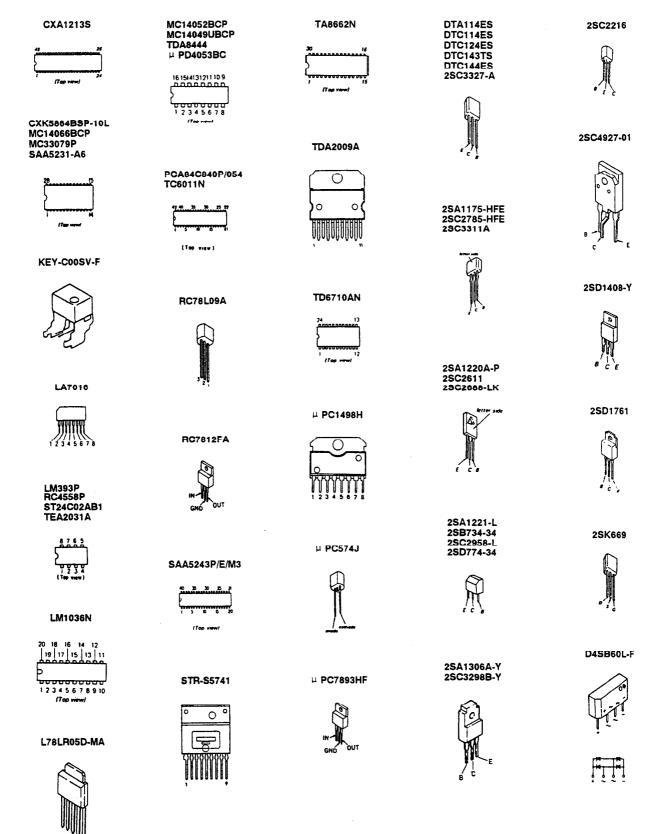
-SC BOARD-



-K BOARD-



5-5. SEMICONDUCTORS



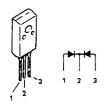
D5LC20U



MC932



EGP30GL-6072 ERC06-15S RU-1P RU-3AM



RD10ES-B2 RD10ES-B3 RD13ES-B2 RD13ES-B2 RD5.1ES-B2 RD5.6ES-B2 RD6.8ES-B3 RD7.5ES-B1 RD7.5ES-B1 RD7.5ES-B3 RD9.1ES-B3 RD9.1ES-B3 1SS119

ERD29-08J RU4DS





EU2Z ES1F-N R2K WG713A







MC911





U05G

SEL1222R-C

MC921





SECTION 6 EXPLODED VIEWS

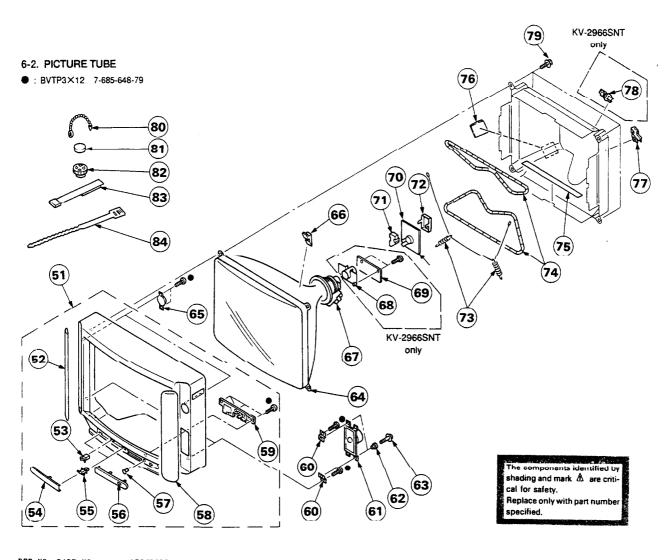
The components identified by s with no part number and no des-ion are not stocked because they seldom required for routine service. shading and mark 🐧 are critical for safety. construction parts of an assembled are indicated with a collation Replace only with part numbe specified. or in the remark column.

s marked * are not stocked since
are seldom required for routine
ice. Some deray should be anticipated
ordering these items. (19) **HASSIS** /TP3×12 7-685-648-79 /TP4×16 7-685-663-79 (18) (20) (16) 13 (17) BV3X25 (21) 7-685-152-19 (15) (12)3 9 6 6 8

. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1297-124-A *A-1297-125-A	H BUARD CASE (BOTTOM LID), SHIELD A BOARD. COMPLETE (KV-2566SNT) A BUARD, COMPLETE (KV-2966SNT) TUNER, ET (BT-886A)		13	1-555-400-00	SCREW, SPECIAL (+PW4X30) CABLE, P-P CABLE, PIN F BOARD, COMPLETE AS BOARD	
4-037-247-01 X-4030-526-1 4-864-307-00	BUTTUN ASSY, POWER	04) 8	18 A	1-563-204-13 A-1385-131-A A-1385-138-A	VN BOARD, COMPLETE SOCKET, ANTENNA (PAL/SECAM) K BOARD, COMPLETE (KY-2566SNT) K BOARD, COMPLETE (KY-2966SNT) K1 BOARD (KY-2966SNT)	
▲ 4-389-778-11	HOLDER, AC CORD (KY-2566SNT) HOLDER, AC CORD (KY-2966SNT) CORD, POWER (WITH CONNECTOR)		21 22	4-038-219-01 4-037-257-01 4-329-127-00	COVER, REAR (KV-2566SNT) COVER, REAR (KV-2966SNT) CLAMP, CORD	

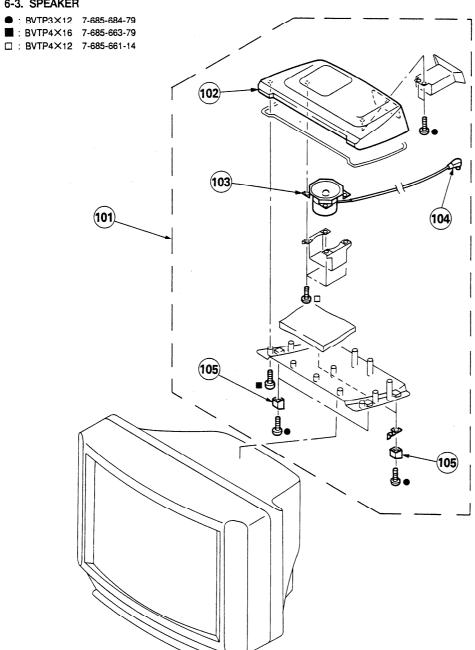
11

(10)



REF.NO	. PART NO.	DESCRIPTION	REMARK	REF. NO	. PART NO.	DESCRIPTION	REMARK
51	X-4031-076-1	CABINET ASSY (WITH BEZEL ASSY)			∆ 1-452-509-42	NECK ASSY, PICTURE T	
	X-4030-946-2	CABINET ASSY (WITH BEZEL ASSY)	2566SNT) 52~59	69	*A-1342-195-A	V4 BOARD, COMPLETE (I	(KV-2966SNT) (V-2966SNT)
52	4-038-254-01 4-037-263-01	GRILLE (L), SPEAKER (KV-2566SNT) GRILLE (L), SPEAKER (KV-2966SNT)	2966SNT)	71	*4-390-911-01	C BOARD, COMPLETE COVER (MAIN), CV	
53	4-392-036-01	CATCHER, PUSH		72 73	*4-390-907-01 4-303-774-99	COVER (REAR LID), CV SPRING (KV-2566SNT)	
54	X-4030-708-5 X-4030-947-2	DOOR ASSY, CONTROL (KY-2566SNT) DOOR ASSY, CONTROL (KY-2966SNT)			4-369-318-00	SPRING TENSION (KV-	2966SNT)
55 56	4-032-761-01	SHAFT (S), DOOR PANEL, CONTROL			▲ 1-426-408-21	COIL, DENAGNETIZATION COIL, DENAGNETIZATION	I (KY-2966SNT) I (KY-2966SNT)
57	*4-389-517-01	GUIDE (R), LIGHT		75			2566SNT)
58	4-038-253-01	GRILLE (R). SPEAKER (KV-2566SNT)		76	4-385-725-01 *A-1241-109-A	FI BOARD, COMPLETE	(9665N1)
59	4-037-252-01	GRILLE (R), SPEAKER (KV-2966SNT) BUTTON, MULTI		77 78	*4-387-284-01 4-033-681-01	HOLDER, LEAD	CHT\
60	4-037-526-11			"	4-033-681-11	HOLDER, LEAD (KV-2566 HOLDER, LEAD (KV-2966	SSNT)
61	1-503-902-11	SPEAKER		79	4-390-505-01	SCREW (7), TAPPING	
62 63	*4-379-189-UI 4-379-192-01	CUSHION, SPEAKER SCREW, TAPPING, STEP		80	4-308-870-00	CLIP, LEAD WIRE	
64	∆ 8 <i>-7</i> 33 <i>-</i> 230 <i>-</i> 05°	PICTURE TUBE (A59JWB11X) (KV-25	566SNT)	81 82	1-452-032-00 1-452-094-00	MAGNET, DISK; 10MM ø MAGNET, ROTATABLE DIS	
65	1-503-834-05 1-503-486-11	PICTURE TUBE (A68JYX11X)(KV-2966S SPEAKER (PIEZOELECTRIC TWEETER)	SNT)	83	X-4387-214-1		CTION P
66	3-704-495-01	SPACER. DV		84	3-701-007-00	BAND, BINDING	
67 4	1.1-451-311-11	DEFLECTION YOKE (Y25FXA) (KV-256) DEFLECTION YOKE (Y29FXA) (KV-296)	6SNT) 6SNT)	1			

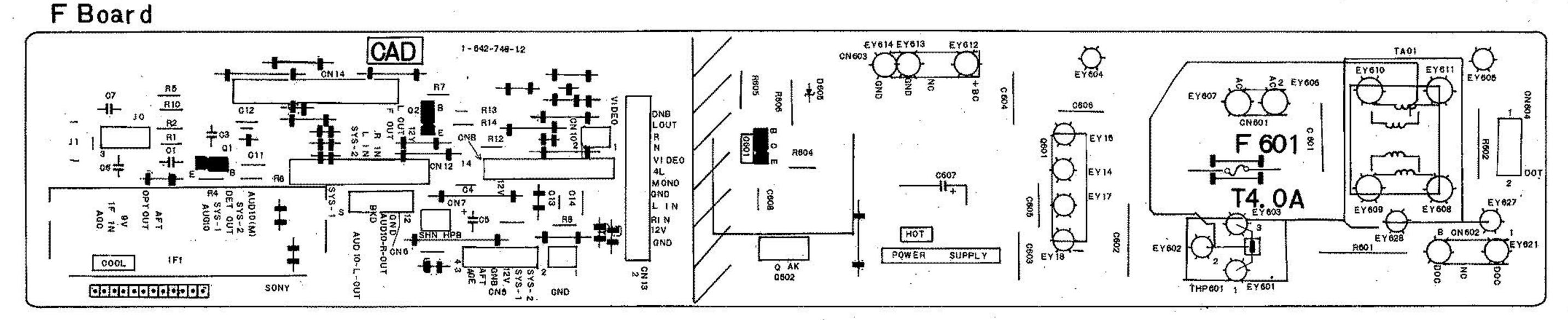
6-3. SPEAKER



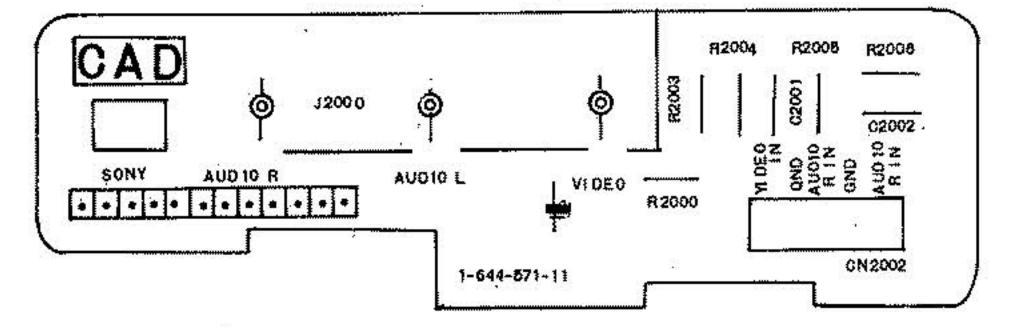
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101 102 103		BOX ASSY. SP COVER ASSY, TOP SPEAKER (10CM)	102~105	104 105	1-575-109-11 4-037-244-01	CORD, CONNECTION FOOT	

KV-2966MNT KV-2966MW KV-2966SNT KV-2966AS

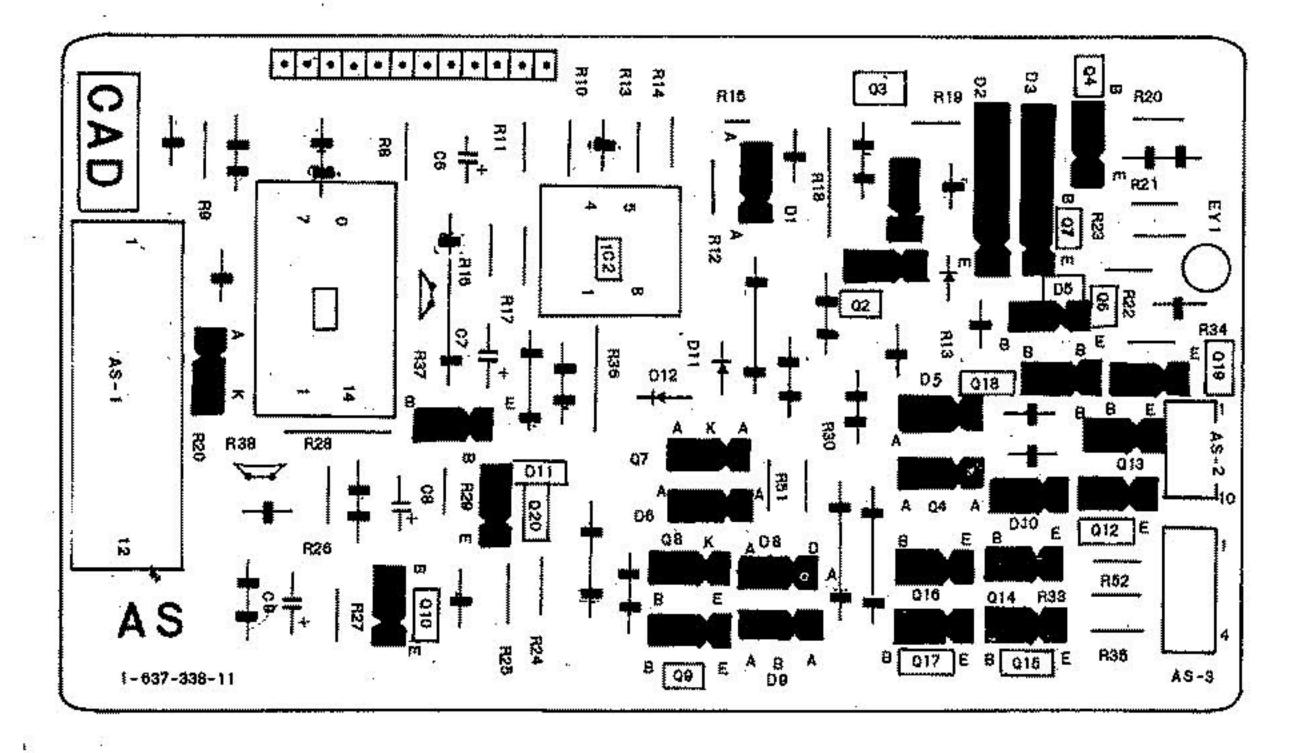
 $F_{\text{(power supply, if Block)}} H_{\text{(audio in)}} AS_{\text{(audio sw)}} J1_{\text{(audio sw)}} J2_{\text{(audio BUFFER)}} K \text{ (audio power amp, vol control, supply, if Block)}$

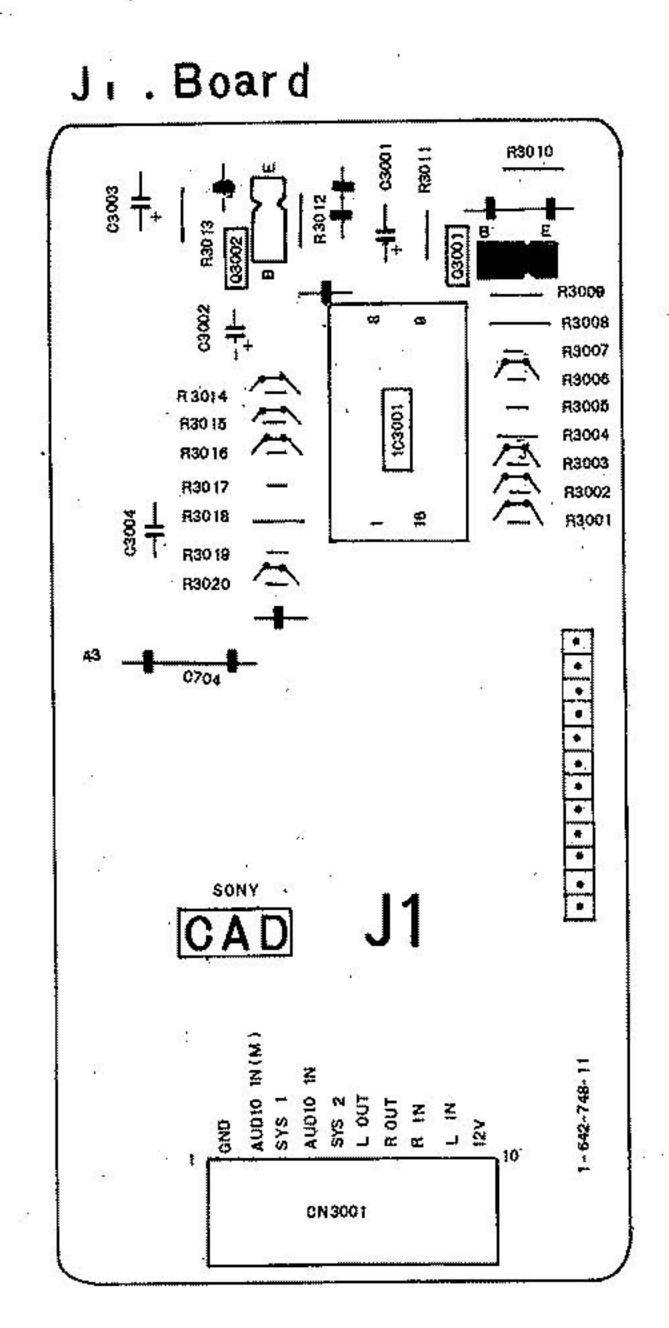




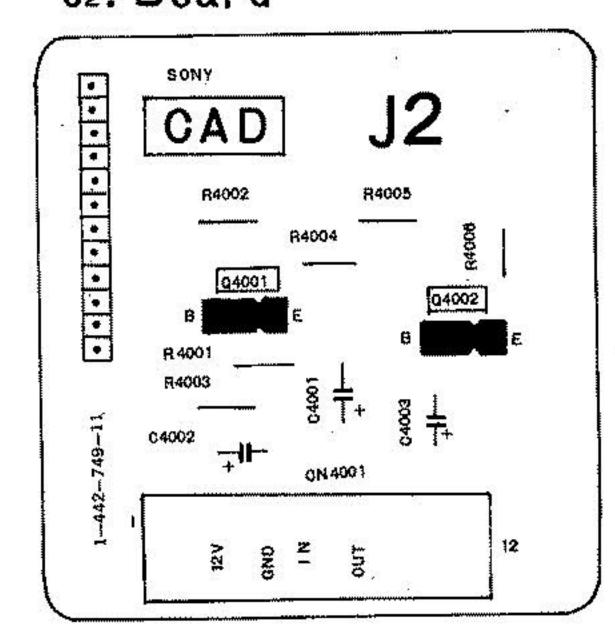


AS Board

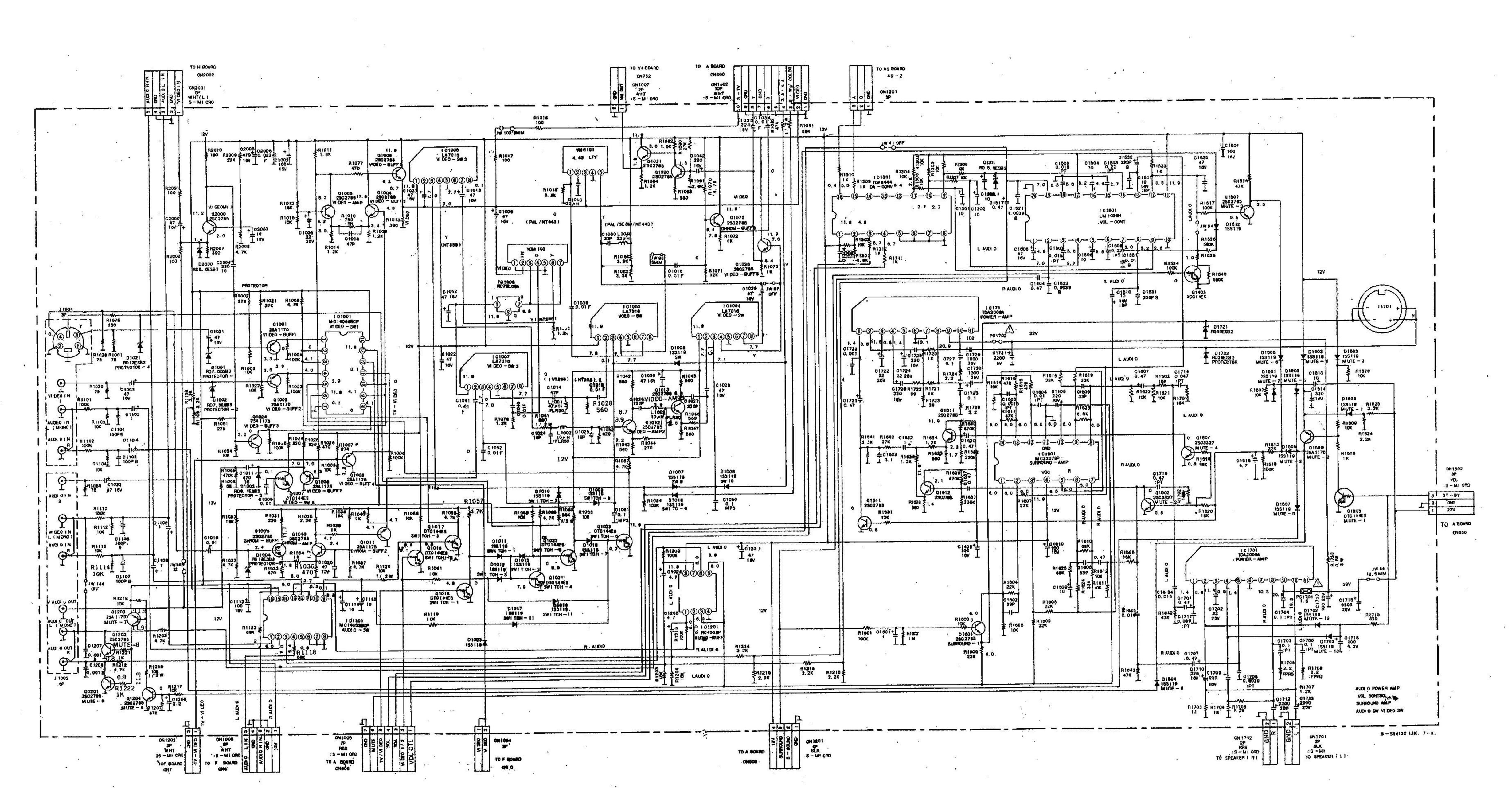


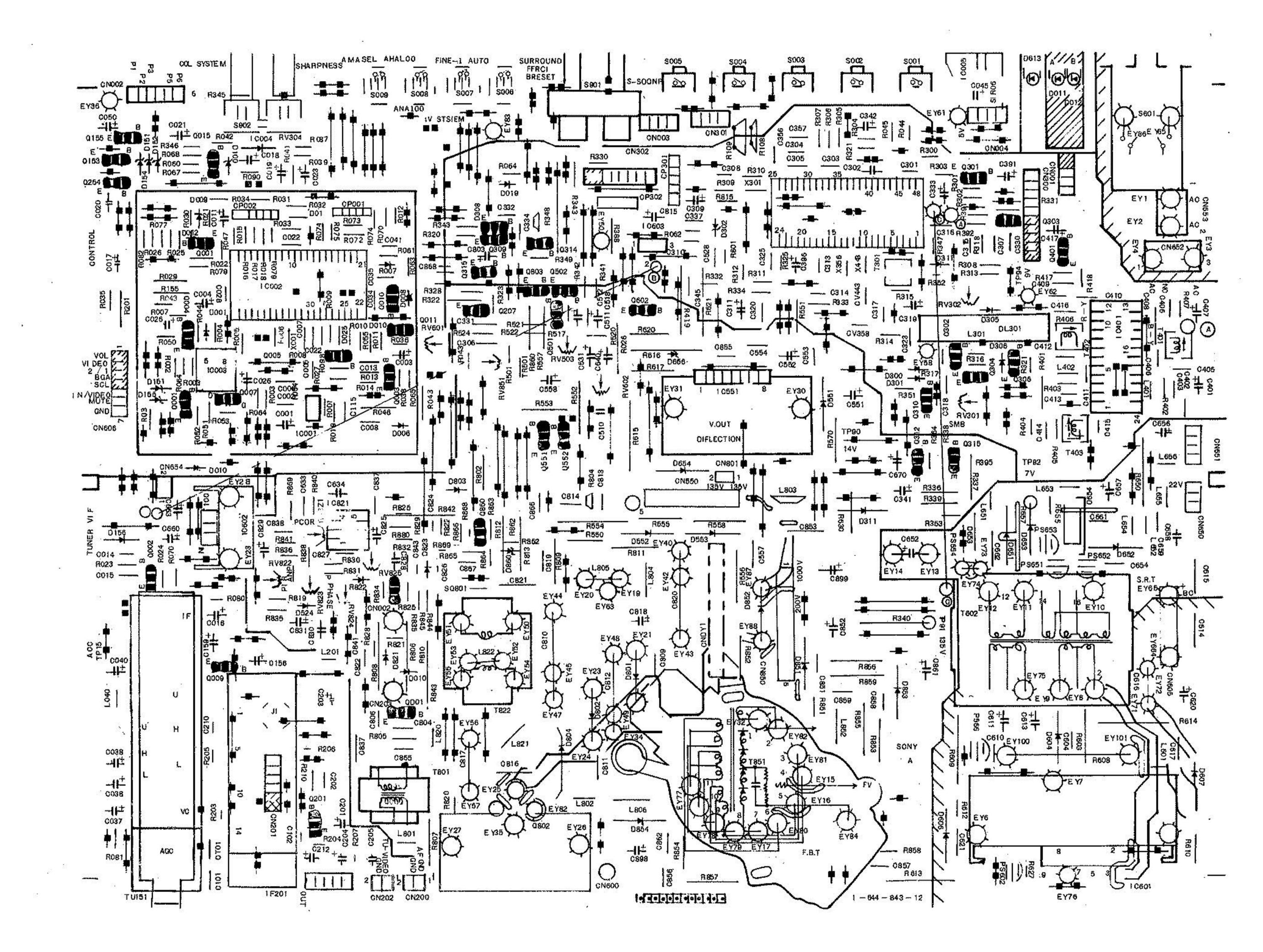


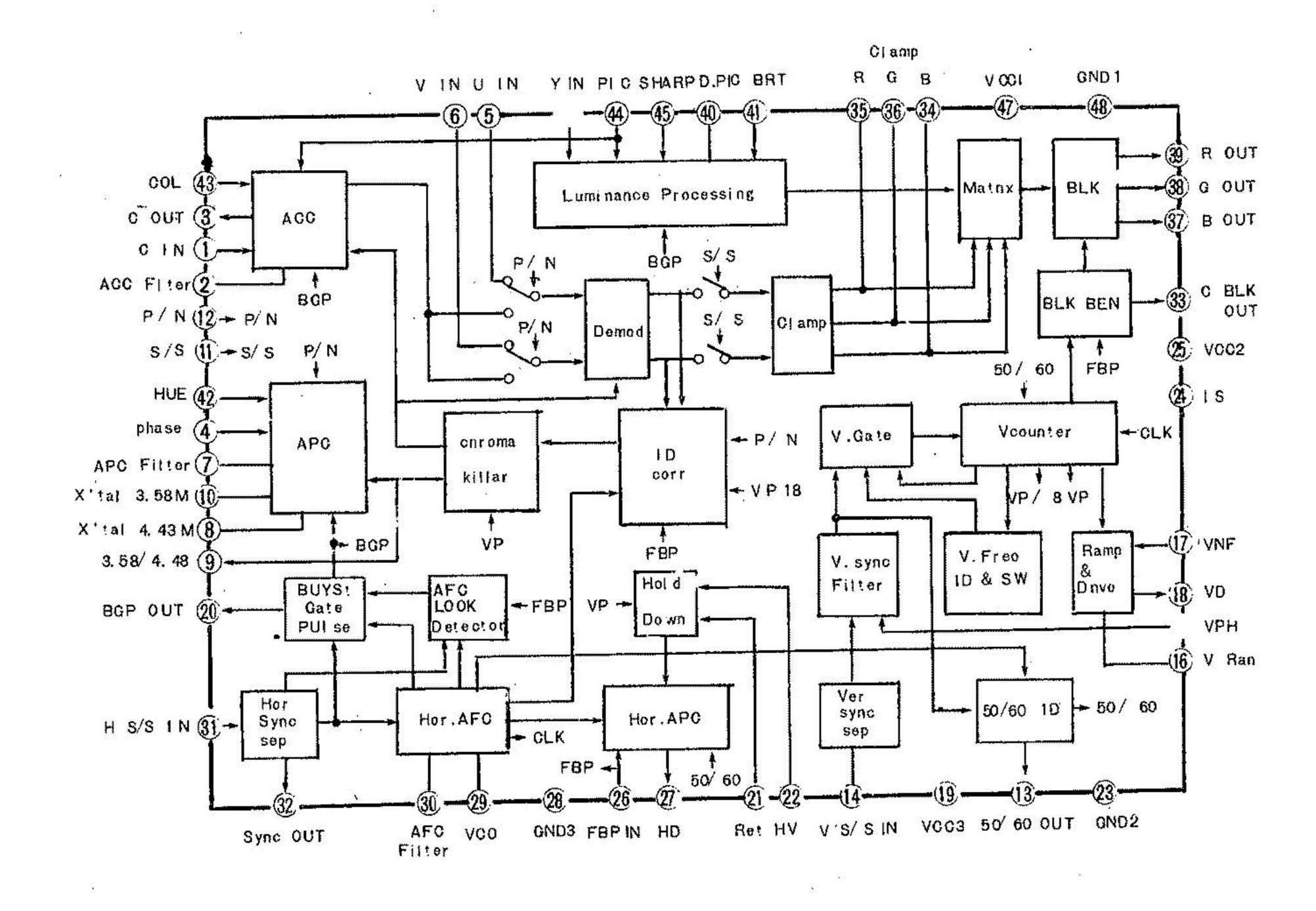
J2. Board

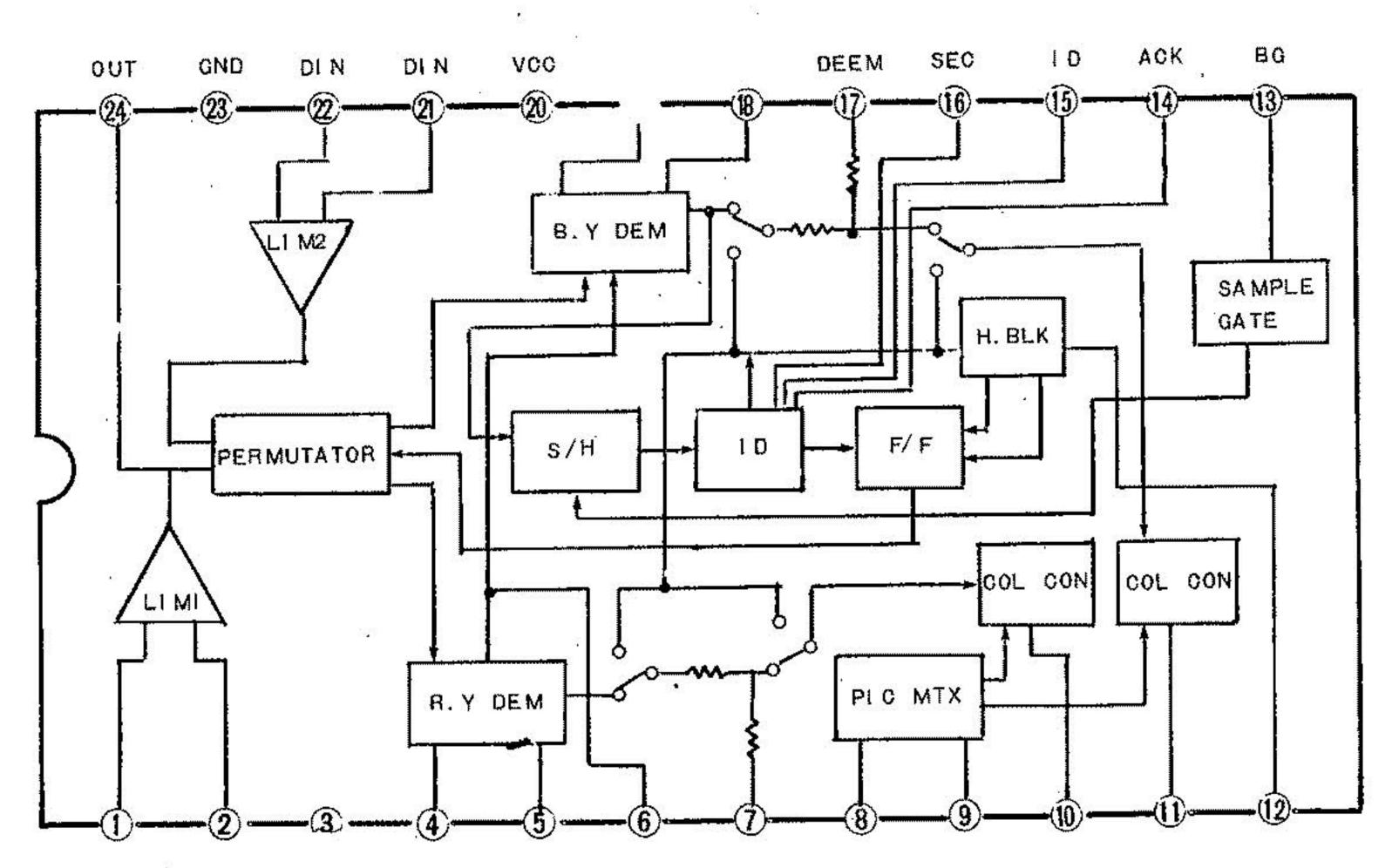


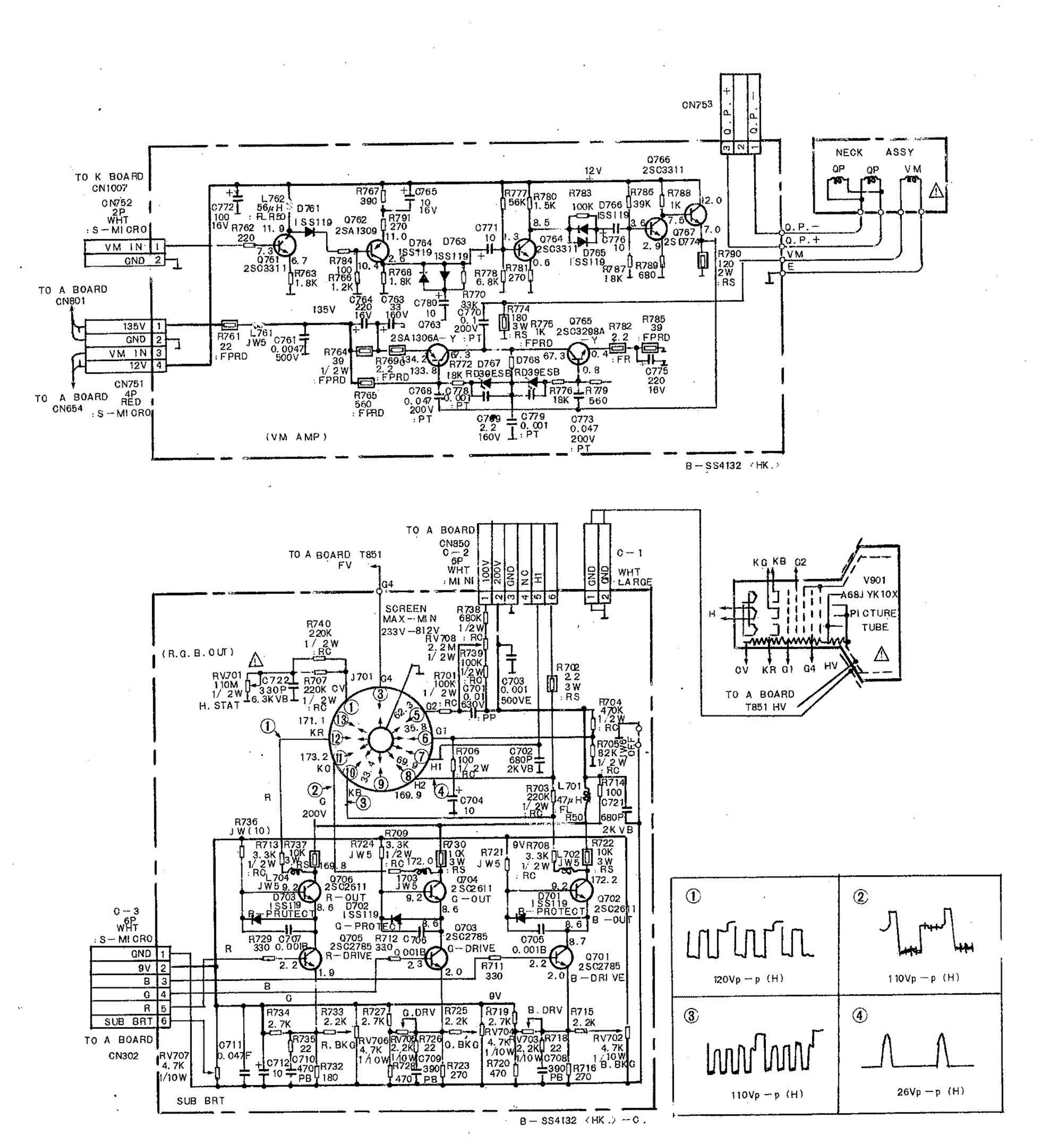
索尼 KV-2966M1

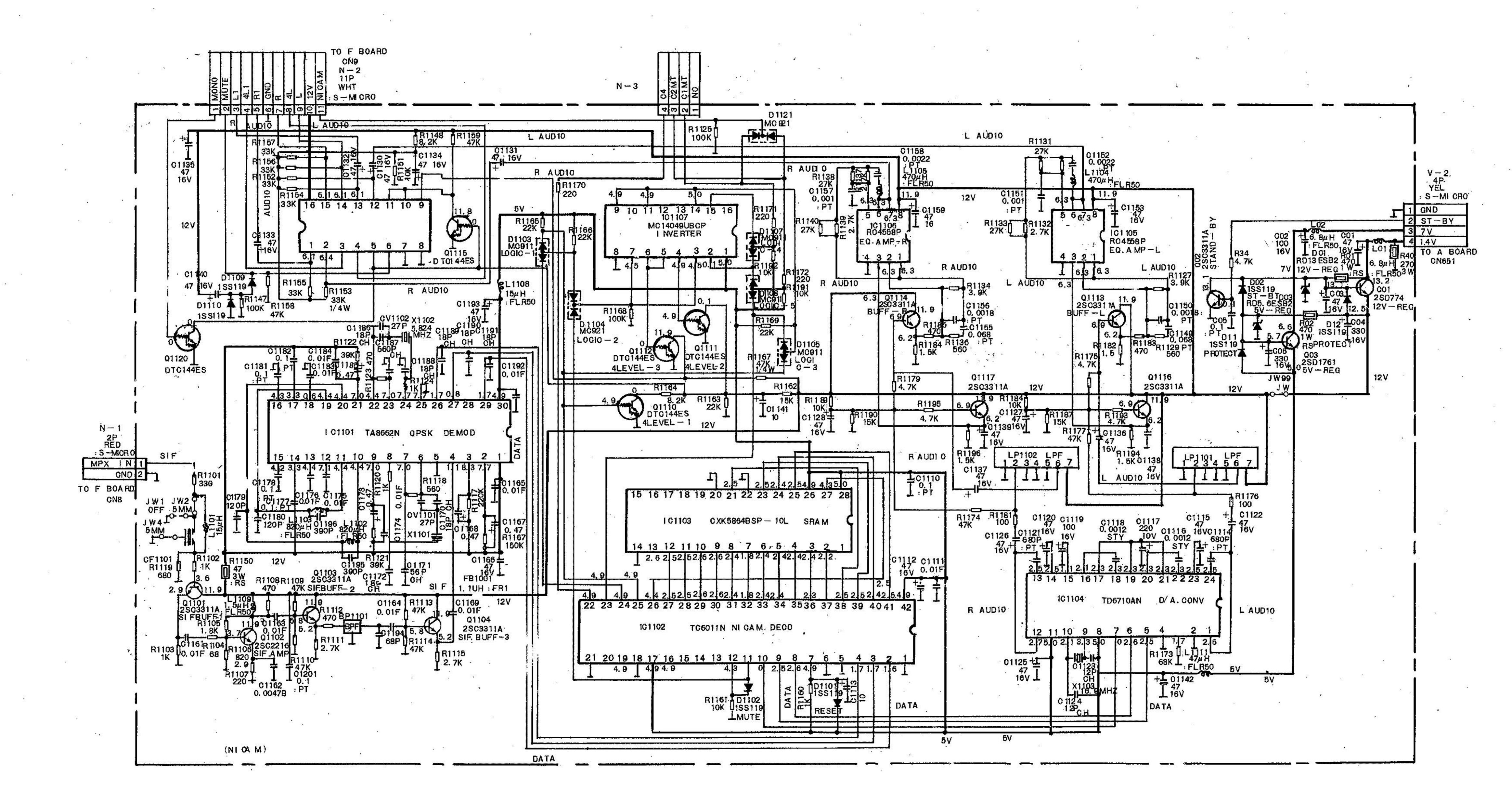












K BOARD WAVEFORMS

	1) PAL/ NTSC	1 SECAM	2 PAL/ NTSC443	
5				
	1. 1VP-P(H)	0.9VP-P(H)	0, 8VP-P(H)	
	3 PAL/ NTSC4443	3 SECAM	PAL/ NTSC443 4 SECAM	
			To The state of th	
	2.2VP-P(H)	2. 0VP-P(H)	0.9VP-P(H)	
	5 NTSC358	6 NTSC358	7 NTSC358	200 March 1997
			J ^r	And the Manual And the
	2.2VP-P(H)	2. 0VP-P(H)	2. 1VP-P(H)	٠
***	8	9 PAL/ NTSC	① NTSC358	
	~J~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		7/1444	A 133 A 134 A 135
	0.9VP-P(H)	0.9VP-P(H)	1. 0VP-P(H)	
	① NTSC358			
N.	2. 0VP-P(H)	er er	· [2] [3]	

